UNIVERSITY of GUELPH

At Guelph

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UNIVERSITY of GUELPH

At Guelph

Internal communications study begins

A task force to investigate ways to improve communication within the University community has begun its work.

A presidential ad hoc committee on internal communications, established by President Burt Matthews in late July and chaired by Ellen Pearson, associate librarian, Library, met for the first time Aug. 25 to begin a review and evaluation of instruments and procedures now in place for general internal communication among all members of the University community, and to propose additional ways to enhance both formal and informal communication.

The committee is expected to submit its report to the president by Oct. 31.

Serving with Pearson are Prof. Elaine McCreary, Rural Extension Studies; Prof. Ramon Hathorn, Languages and Literatures; Mary Cocivera, Alumni Affairs and Development; Al McInnis, Residences; undergraduate student Chris Moore; graduate student Dennis Blake; and Barbara Abercrombie, University secretary.

Internal communication is an area the University must be prepared to look at, says Matthews. It is one of the important questions raised in the draft of the strategic plan, which is to have its first reading at Senate later this month.

Matthews says he has always been concerned about communication and that he has tried to improve internal communication over the past four years by giving *At Guelph* more editorial freedom, issuing memos to faculty and staff on various issues, taking the University's budget to Senate and publishing committee reports in draft form to encourage University-wide discussion and comment.

"But despite all this, I sense that there is still some lack of communication internally," he says. "I am asking this committee to consider this, and to recommend what additional things we can do."

Matthews says he knows there are problems with internal communications because of some of the things people say to him about what is — or what is not — going on at the University. "People often tell me that they don't know what's going on."

The committee is expected to consider internal communications instruments such as *At Guelph*, the "Memo from the President" and other internal newsletters. But Matthews says he's not sure that what this University needs are more central mechanisms to distribute information. "Maybe we need more awareness on the part of administrative people all the way down the line to communicate with their staff," he says.

He has asked the committee to look at the role of administrative and management personnel, faculty, staff and student organizations in enhancing internal communication, and to discuss who should be responsible for internal communication.

Pearson says the committee will meet regularly to discuss methods, processes and feelings related to internal communication. "We really want to encourage people to contribute to and participate in this process," she says. Members of the University community are urged to talk to members of the committee, send their written comments to the University secretary and join one of two CoSy conferences — one of them in T-CoSy — called "Intcom."

The committee also wants to see samples of newsletters and other printed material used for communication purposes; these should be accompanied by a paragraph that outlines the publication's terms of reference and its audience.

"Obviously, in the six- to eight-week time frame, we aren't in a position to provide specific critiques," says Pearson. "We just need to see what's out there."

In addition, the committee will be looking at less tangible forms of communication such as electronic and telephone communication.

"We want to hear how we can do things better," says Pearson, who sees the work of the committee as an ongoing process. "If we come up with six or 10 reasonable and feasible recommendations this first time around, then we will have gone part way to accomplish the task." O

Public meeting on next presidency

Do you have some thoughts on the future of the University and what kind of person should be its next president? If you do, the selection committee for president wants to hear them.

Committee chair Edmund Bovey has called an open meeting of the University community Sept. 14 from 5:10 to 6:30 p.m. in Room 113 of the MacNaughton building.

The committee wants to hear student, staff and faculty views on the direction the University ought to be taking in the next decade, and the attributes of the person best suited to provide leadership during that time, says Bovey. The opinions expressed will help the committee establish criteria for judging the candidates and will enhance the committee's ability to make a sound choice, he says.

Over the summer, the committee has received a number of responses to its request for nominations and applications, but would welcome more before the Sept. 30 deadline for submissions. Members of the University community are encouraged to submit the names of people who have been particularly effective in their current work and who would make suitable candidates for the presidency, says Bovey. It is not necessary for the nominator to obtain the nominee's consent for the submission; the committee will contact the person. All nominations are treated confidentially.

The selection committee has hired Dr. Janet Wright of George Enns Partners Inc. to assist with the extensive research needed to find the best-possible candidate, says Bovey. Wright has been a consultant to presidential search committees at Toronto, Trent, Western, Windsor, Dalhousie, Lethbridge and Brock universities. Wright's experience in procedural matters and research into the Canadian scene are expected to help the committee when it begins to narrow the field of candidates and conduct interviews. O

Senate to discuss draft strategic plan

The first of a two-part discussion on the draft strategic plan will be held at Senate's first meeting of this academic year Sept. 15 at 8 p.m. in Room 113, MacNaughton building.

Barbara Abercrombie, University secretary, said at press time Sept. 3 that the Senate executive committee expects that a special meeting of Senate will be called for Sept. 29, same time, same place.

Prof. Bev Kay, chair of the Committee on University Planning, says the draft strategic plan going to Senate is a revised one. It contains editorial changes, mainly to clarify some of the misunderstandings that surfaced in written responses after the plan was distributed to the University community in July.

Also on the agenda for discussion is the *Report of the ad hoc Committee on University/Community Interaction.*

The Research Board will also present a recommendation to establish a landscape research group at Guelph. O

You can't win unless you buy a ticket!

In just two short weeks, some lucky person will become the proud owner of *The Campaign's* "sparkling" red Corvette. The winning ticket will be drawn Sept. 26 during half-time festivities at the Homecoming Weekend football game.

The 1985 Corvette was donated by George Morris, a retired farmer and entrepreneur from Chatham, who wanted to "put a sparkle" in the University's fund-raising campaign. It has red leather upholstery, a California sun roof, four-speaker Bose sound system, cruise control, a specially designed roll bar in the roof, and has been driven only 10,000 kilometres.

The Campaign organizers hope to raise $50,000 on the sale of tickets, and Morris hopes his unique gift will demonstrate that "the real fun in life is how you get from here to there."

The car has been displayed around campus and downtown during the summer and will be polished up again for Homecoming Weekend.

Tickets are still available from the University Centre box office, from any member of the Department of Alumni Affairs and Development, or by calling Ext. 6532. The $10 ticket gives you a chance to win the Corvette as first prize, a trip for two to Rio de Janeiro via Canadian Airlines International as second prize, $1,000 in cash donated by Bob Skipper, OAC '51, as third prize, a $600 shopping spree at the Guelph Eaton Centre as fourth prize and a $500 shopping spree at Guelph's Stone Road Mall as fifth prize. All prizes have been donated. O

Speaking out

Draft strategic plan subverts University purpose: McMurtry

After studying the draft strategic plan, I cannot help but think it is in conflict with the established structure and aims of the University.

To begin with, it seems most irregular for a major proposal for University reorganization to be promulgated across the University in the summertime, with no indication of its authors or even posting of the source of its authority.

This initial concern gives way to rather deeper misgivings and questions as to the plan's jurisdictional legality when one reaches page 5. Here it is proposed (in section 3.0) that an undefined committee "appointed by the president" will have unrestricted directional power over the University's "teaching programs" — over their "content," their "size," their "phasing out" and their "introduction," as well as over the "research emphasis" of the University as a whole.

This proposal to vest blanket power over the University's academic life in a single, non-elected committee is unprecedented and disturbing. It is also in *prima facie* violation of Section 13 of the University of Guelph Act, which governs our University. This act states: "The Senate is responsible for the educational policy of the University," the Senate "has the power to control, regulate and determine the educational policy of the University" and the Senate is required "to determine courses of study as well as to establish standards of admission." Moreover, the University of Guelph Act specifically states that it is Senate's responsiblity "to create faculty councils or committees and committees generally to exercise its powers."

The proposed strategic plan would transgress these powers, even if its strategic plans were eventually submitted to Senate (3.2), because it, not Senate, would "control" and "determine" what the content of its educational policies were. Senate would be reduced, that is, to a rubber stamp.

The draft strategic plan not only assumes Senate powers *ultra vires*, but it also fails anywhere to ground its recommendations on the "objects and purposes" prescribed for the University by the University of Guelph Act (Section 3 (a) and (b)). Moreover, it fails anywhere to ground its proposals on the aims of the University outlined in *Towards 2000: Challenges and Responses. Aims of the University of Guelph*, which articulates these "objects and purposes."

Although the draft strategic plan claims to be seeking "ways of getting from here to there," there is, in fact, no proposal in the draft plan that is derived or shown to follow from these constitutional bases of the University. Indeed, the draft plan talks as if there were no constitutional aims and objectives, because it states that there is a "need for giving the institution a sense of direction" (1.0).

As well, the draft strategic plan seems to be in outright conflict with the aims and objectives of our University: namely in the proposals to increase student-teacher ratios (4.0), to eliminate courses and programs (4.1.2), to shorten semesters (4.1.4), to reduce the number of faculty researchers and teachers (4.1.5), to cut back support for the University School of Part-Time Studies and Continuing Education (4.2.5), to reduce intake of undergraduates (4.2.1) and to emphasize externally designated and funded research (4.2.3).

These policies would not promote "the advancement of learning and the dissemination of knowledge," which is the primary constitutional objective of the University. On the contrary, they would systematically reduce the University's capacities for teaching and research. Higher student-teacher ratios, fewer courses, fewer students, less teaching time, fewer faculty researchers and teachers, less financial support for community education and less research autonomy — these fly in the face of the University's declared aims.

A number of these proposals are, frankly, shocking in the context of recent increased provincial funding and the already accumulated strain of years of faculty attrition in a number of academic departments. That the authors of the draft strategic plan should, for example, presume that because our overall teacher-student ratio is currently 10 per cent better than the Ontario university average, we should follow the crowd and worsen it (page 9) instead of holding to this distinctive commitment to smaller classes and featuring it in all liaison communications, indicates the thoughtlessness and even crassness of the plan's approach to the University's mission. It is also self-contradictory in view of the draft plan's explicitly stated concern "to encourage more personalized student-teacher relationships" (page 15).

When all this is taken together with the recommendation of the draft planners to appropriate two per cent of the Ministry of Colleges and Universities' operating budget every year for "discretionary" use by the administration, these proposed cutbacks and cut-ins can be seen to form a pattern. The pattern is to take away from support of primary functions of the University — "advancement of learning and dissemination of knowledge" — and redirect it to "strategic" goals defined by the administration.

The two per cent the administration would like to appropriate from ministry grants for administration's "discretionary" uses will come out of academic departments' operating budgets, as it did last year, to fund who-knows-what the administration would prefer to favor. The problem with this overall pattern is that its proposed cutbacks on faculty, undergraduates, courses, programs, teaching hours, smaller classes, community service, scholarly autonomy and academic operating expenses are all in direct conflict with the University's constitutional goals.

The administration would be wise to reconsider its proposal. The teachers, learners and researchers of the University community should ensure that the University is not subverted from its purpose.

Prof. John McMurtry, Philosophy.

Residences juggles beds, waiting for final count

by Barbara Chance

The Registrar's Office and the Department of Residences were playing a waiting game last week — waiting to see how many of the students who had accepted admission to the University would actually appear at registration Tuesday.

Although Registrar Arnold Holmes expects total first-year enrolment to be similar to last fall's 2,981 when the final figures are tallied, a higher percentage of students than expected — and a higher percentage than ever before — accepted offers of admission from Guelph this year.

Because no one ever knows how many confirmed students will finally arrive, it was impossible to predict exactly what the classroom and residence requirements of this year's incoming students would be.

That uncertainty made a hectic summer even worse for the Department of Residences, says Blair Capes, assistant director. Already working as jugglers after learning that 300 more returning students than usual wanted to return to residence, the department had to pull out a full-fledged magic act to make beds materialize for the unexpected number of first-year students — all of whom are guaranteed a place in residence —who said they were coming.

Capes says the dramatic increase in the number of returning students wanting to stay in residence is likely because the supply of desirable off-campus accommodation has decreased in recent years. And because students are becoming "more willing to pay for the convenience of living in residence and the lifestyle that goes along with it."

Because of the increase in first-year confirmations, Residences ended up putting 450 returning students on a waiting list and putting some in double rooms instead of the singles they had requested. That still left the department looking for temporary space for more than 90 first-year students — almost 50 more than last year, says Capes. Students have been assigned to temporary triple rooms in Macdonald, Maid's, Mills and Johnston halls, to temporary five-person suites in the South complex, to commons rooms in Lennox/Addington and to music practice rooms in Lambton Hall.

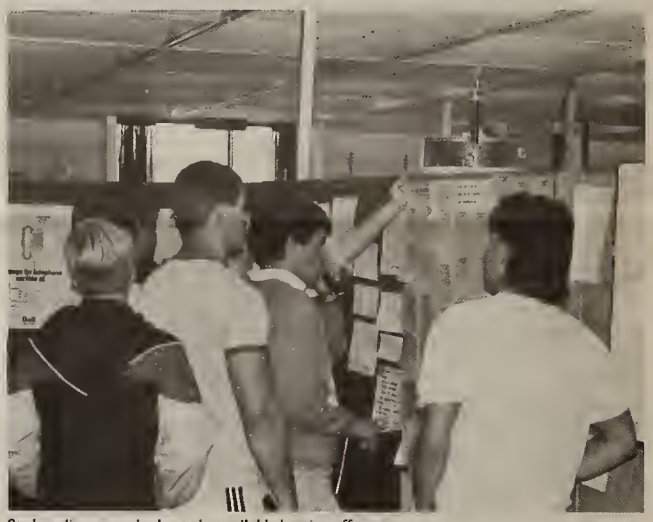
After this weekend, Residences will know for sure how many students who have accepted a place in residence actually want it, and will then begin juggling returning students out of double rooms and first-year students out of temporary space to fill the vacancies. It will be several months, however, before all the temporary students have been accommodated and rooms are available for students on the waiting list.

"This has certainly been the most hectic summer that we've had so far," says Capes. In the midst of the room crunch, the department also had to orchestrate the installation of a new phone system in all the residences this summer, no small task in the midst of the University's busy conference season.

Although the room situation has been frustrating for everyone involved, Capes says he is proud of the "outstanding job" Residences staff have done over the summer months. And he is encouraged by the number of people in the Guelph community who have responded to the University's plea for space for those students who couldn't get a room in residence.

In late July, the off-campus housing situation was "looking pretty grim," says off-campus housing officer Barbara Hodsdon. "It was looking the worst it had been since 1975." But thanks to co-operative attention from the media and a banner on the Gordon Street overpass, "many people have been coming forward and offering rooms in their homes."

There is still a shortage of space for male students and for couples and families, she says, but all in all, "we haven't had it this good for some while." ○



Students line up to check out the available housing off-campus. *Photo by PRI*

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Construction of performing arts centre good news for Drama, Music: Conolly

The University community will benefit individually and collectively from Guelph city council's decision to support the construction of a performing arts centre, says Prof. Len Conolly, chair of the Department of Drama. There will be a general increase in cultural events and an enrichment of cultural activities because of the centre, he says.

Approved in council July 20, the $8.1-million performing arts centre will attract a wider range of events to Guelph, says Conolly. It will also be available for University use and will relieve pressure on War Memorial Hall as a site for community events such as the Guelph Spring Festival.

The proposed centre will be about one-third the size of Kitchener's Centre in the Square, with an 800-seat theatre, a 250-seat studio-hall, two soundproof rooms and administrative space. Conolly predicts its superior facilities will be sought after for some performances staged by the departments of Music and Drama.

Prof. Bill Hughes, Philosophy, represented the University in early discussions about the need for a performing arts centre in Guelph. Although the University had offered a site on campus, a citizen's committee appointed by council recommended a downtown location to stimulate more community use.

"I see it as an opportunity for the University to take events to the community, rather than always expecting the community to come to the University," says Conolly, who feels the existence of the centre will enhance community-University relations.

The new centre will be located at the site of the Speed skating rink on Woolwich Street, across from the Eaton Centre. The riverbank location provides an excellent opportunity for an architectural design that will merge the old with the new, says Conolly. The skating rink will be retained as an integral part of the centre, with future parkland development along the river.

City council also agreed to match funds raised publicly prior to construction of up to one-third the project cost and to provide an annual grant to help cover the centre's expected deficit of $115,000 a year. Council's community services committee and the citizens committee will co-ordinate both the fund-raising campaign and the construction project. ○

Thursday noon-hour concert marks 20 years, season dedicated to the Kidds

Twenty years of beautiful music at the Thursday noon-hour concert series are being celebrated by the Department of Music. The season is dedicated to the founders of the series, Ralph and Edith Kidd.

The opening concert Sept. 17 at 12:10 p.m. in Music Room 107 (The Nicholas Goldschmidt Room) of the MacKinnon building features Canadian baritone Kevin McMillan and pianist John Greer. The Kidds will be in attendance and will be honored at a reception for invited guests following the concert, says concert manager Dudley Gibbs.

In the weeks to come, concerts will be given by some 20 Canadian and international artists. (Watch "Briefly" and "Coming Events" for details.) The concerts, presented with the assistance of the Province of Ontario through the Ontario Arts Council, are free and open to the public.

Ralph Kidd was the first chair of the Department of Music, which was established in 1965. But for years before that, the Kidds were known as "musicians-in-residence" by the founding colleges, says Murdo MacKinnon, the first dean of the colleges of Arts and Social Science. Attached to the office of Padre Ron William Young, the Kidds provided organ and piano music for convocations, church services, alumni reunions, visiting 4H groups, banquets and retirement parties.

They organized the Sunday nine o'clock concert series held in Creelman and War Memorial halls and helped to bring distinguished performers to campus. The Glee Club, made up of students from the University, was conducted by Ralph, with Edith as accompanist. They were also among the founders of the Inter-Varsity Choral Festival that included the universities of Toronto, McMaster, Western and Guelph. In the community, they took an active role in the Preston Music Club, and Ralph was organist and choirmaster at St. George's Anglican Church.

When the MacKinnon building was completed in 1967, Edith became concert manager. She began the noon-hour concerts in January 1968, with a recital by Dutch baritone Peter van Ginkel. About 20 concerts were arranged every year. The Kidds retired from the University in 1975.

"Other universities have copied the style and structure of these splendid Thursday concerts, but Guelph led the way," says MacKinnon. "The credit for this very successful venture rests largely with Ralph and Edith Kidd, who dedicated their time to making the University a centre of musical excellence." O

Ralph & Edith Kidd *Photo by John Majorossy, Photographic Services*

Varity gift to School of Engineering

The School of Engineering has received electronic equipment, computer software and technical papers from Varity Corp. of Toronto. Valued at $50,000, the gift is to benefit the school's research programs in agricultural engineering and its teaching functions, says director John Ogilvie.

The gift consists of data logging and analyis equipment, a computerized farming optimization system that researchers from Varity's central electronics group developed co-operatively with U of G engineers, and computer software to operate the equipment. Varity will retain rights to future commercial applications of this technology.

A microfiche collection of technical papers from the Society of Automotive Engineers is also part of the donation. The papers, collected over the past 20 years, will enhance the University's archives in the field of engineering, says Ogilvie.

Through OAC and the School of Engineering, the University has a long-standing relationship with Varity, formerly Massey-Ferguson Ltd. In the early 1970s, the company donated $750,000 to the University's development fund and played a key role in the successful completion of a $7.5-million fund-raising campaign. The Engineering building is named for Albert A. Thornbrough, retired president of Massey-Ferguson and a charter member of Board of Governors.

The University and Varity are also long-time supporters of the Developing Countries Farm Radio Network, a public service program for Third World agriculture that is directed from campus by former CBC farm commentator George Atkins. O

Innovative computer use cuts research costs

by Helen Mason

An innovative approach to computing at the universities of Guelph and Waterloo has cut costs in half for a group of physicists and chemists and is giving them scope and flexibility usually found only in supercomputers.

Physicists at the two campuses had been using an FPS 164 array processor. Although the unit was yielding impressive results, computer costs for individual scientists were $5,000 a year, and maintenance costs were also high. The theoretical chemistry group was using a cheaper alternative — a SUN 160 workstation computer.

By joining forces, chemists and physicists on the two campuses upgraded the SUN, adding more central processing units and disk capacity. Funds from the two universities, the Natural Sciences and Engineering Research Council (NSERC) and from individual users met the total capital costs of $200,000. Costs to individual users will be only $2,000 a year — less than half the cost of using the array processor.

Prof. Chris Gray, Physics, says the SUN is a bit slower than the array processor, but up to 16 people can use it at one time; only one can use the array processor. "This will allow us to make large-scale computing available to large numbers of faculty, students and post-doctoral fellows," says Gray, who is the principal investigator for the NSERC grants and chair of the array processor manageme :ommittee.

In a recent development, the FPS company has lowered the maintenance costs on the array processor with the understanding that the computer will be kept at Guelph for two more years before reverting to the company. The processor will serve as a backup to the SUN and will be available for general use at $5 an hour.

Fast, dependable computation is important to modern scientists, says Gray. A supercomputer can grind out the consequences of a theory more than 1,000 times faster than a personal computer (if it could be programmed to produce such data) and 10 times faster than a mainframe computer, he says.

Besides Gray, the SUN group includes Guelph physicists Peter Egelstaff, Duk Poll, Murray Alexander, Don Sullivan and Bernie Nickel, Waterloo physicist S-Fu Wang, Guelph chemists John Goddard, Richard Oakley, Nicholas Westwood, Saul Goldman and Jane Lipson, and Waterloo chemists Bob LeRoy, Juri Cizek, Joe Paldus and Fred McCourt.

Eight phone lines between the two universities are currently dedicated to computing and another four are being added. In future, however, SUN group members hope to use side bands of the planned Guelph-Waterloo microwave transmission link.

To arrange time on the array processor, or to inquire about the SUN, contact Gray at Ext. 3984 or Alexander at Ext. 6566. O

Appointments

Prof. Les Ferrier, Food Science, has been appointed the first incumbent of the Egg Producers Marketing Board Chair and associate professor in the Department of Animal and Poultry Science, effective Sept. 1.

Prof. Manfred Kremer became chair of the Department of Languages and Literatures Sept. 1 for a five-year term.

Prof. John Pratschke joined the Department of Consumer Studies as professor and chair Sept. 1 for a five-year term.

Prof. Mathew Atilola joined the Department of Clinical Studies July 20 as assistant professor on a three-year contractually limited basis.

Prof. Donald Rieger joined the Department of Biomedical Sciences July 20 as assistant professor (research) on a three-year contractually limited basis.

Dr. Don McIntosh, Office for Educational Practice, and Dr. Hedley Dimock, director of the Centre for Human Resources Development, Puslinch, have been appointed adjunct professors in the Department of Rural Extension Studies. Both appointments are for three years, effective July 1.

Tom Brownrigg has been appointed manager, application services, Computing Services. O

Information technology seminars offered

A series of free seminars on a variety of information technology topics will be offered this fall through the combined efforts of Computing Services, the Office for Educational Practice, the Library and Communications Services.

The two-hour seminar will be held in Room 212 of the ICS building. Although no hands-on training is provided in these seminars, demonstrations of micro and mainframe services will be included wherever appropriate.

Register for the seminars in person in Room 204, ICS building, or by calling Computer Services at Ext. 8888, starting Sept. 11. Most of the seminars are offered twice, but if you find that the seminar you want is full, ask to be put on a waiting list. Whenever possible, additional seminars will be scheduled.

Times:	M	10 a.m. to noon.
	A	1:30 to 3:30 p.m.
	M/M	Both sessions in a.m.
	M/A	First session in a.m., second in p.m.
	A/M	First session in p.m., second in a.m.

Dates	Times	Topic
16/9	M	Intro to Information Technology Areas
17/9 13/10	M/A	CMS Basics
17/9 19/10	A/A	PC DOS
29/9 20/10	A/A	PC Data Management
21/9 15/10	M/M	Intro to Micros
21/9 21/10	A/A	Intro to Mainframe
22/9 20/10	M/M	Intro to NETNORTH
23/9 21/10	M/M	WordPerfect Basics
23/9 28/10	A/M	Intro to DBASE III
24/9 26/10	M/M	WordPerfect Macros/Columns
24/9	A	Intro to CoSy
25/9 15/10	A/A	Intro to LOTUS 1-2-3
28/9 27/10	M/M	WordPerfect Table of Contents — Indexing
28/9 16/10	A/A	Scientific Computing
29/9	M	Intro to Communications
30/9 19/10	M/M	Intro to Desktop Publishing
1/10 14/10	A/A	CMS File Management
2/10 4/11	A/A	Off-Campus Databases
5/10 26/10	M/A	SAS/Day 1 **
6/10 27/10	M/A	SAS/Day 2
6/10 22/10	A/A	NOMAD Day 1 (Reporting) **
7/10 28/10	M/A	SAS Full-Screen Product
7/10 23/10	A/A	NOMAD Day 2 (Database)
8/10 29/10	M/A	SAS Graph
9/10 3/11	A/A	Test Scoring Info Session
13/10 30/10	M/A	PC SAS
29/10	M	WordPerfect Jam Session
5/11	M	Advanced Communications
9/11	M	Using CD-ROMS

** NOTE: NOMAD and SAS are multi-session seminars. Register once to attend both Day 1 and Day 2.

Population Medicine takes in first students

The new Department of Population Medicine at OVC is offering its first courses this semester.

Chaired by Dr. Wayne Martin, formerly of the Department of Veterinary Microbiology and Immunology, the Department of Population Medicine — the first of its kind in North America — brings to five the number of separate disciplines within OVC.

Population medicine is the study of the distribution and causes of both health and disease, combined with directed action for the management of health and the control of disease in animal populations. Because it's such a new area, the founders and early participants will literally be developing the program themselves, says Martin.

Along with Prof. Kenneth Leslie, Clinical Studies, Martin was instrumental in guiding the new department to the approval stage, which was granted by Senate in March. Some 22 faculty members will be associated with Population Medicine; most will initially have cross-over appointments with other OVC departments.

The concept of a department of population medicine is not a new one, says Martin. It's an idea that has been around for about four years, and it shifts the emphasis from treatment of individual animals to the treatment of entire herds or farm animal populations. "We want to bring numerical science to veterinary medicine in terms of maintaining the health of entire animal populations," he says.

Health management is "our term for application of all this theory we have learned," says Martin. Because there is no model to copy, "we will have to teach ourselves to be health management specialists."

One of the new department's main objectives will be to shift the emphasis from health care of individual animals to the herd. Martin says it's also important that the department take into consideration public health, regulatory medicine and companion animal concerns.

The academic unit will bring together professors and students who wish to take a population-based, quantitative, holistic approach to the study of health and disease. Using a multicausal approach will permit researchers to study events and diseases where they occur, says Martin. The study of disease in its natural setting will require working with microbiologists, agricultural engineers and other specialists on campus.

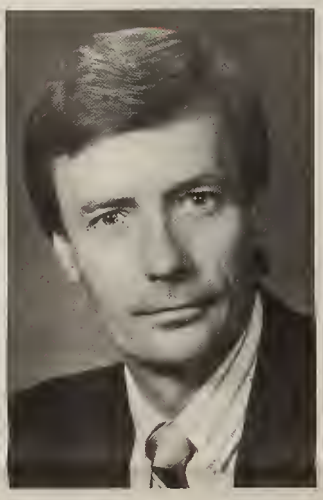
"We might find the problem, but as veterinarians, we might not know how to fix it," he says. "We will be trying to build bridges with a whole series of others on campus." For example, if a population medicine specialist discovered that a herd was ill because of ventilation problems, the veterinarians would call in agricultural engineers for assistance.

Martin says the new discipline is a welcome one because individual and corporate farmers alike see the value in a population-wide study of the frequency, distribution and cost of disease, along with the inter-relationships among diseases, management and productivity. "The discipline will also involve directed action such as prevention-and-control strategies for the management of health and the control of disease in animal populations."

One of the central responsibilities of the department will be to collect data on the distribution, causes and costs of disease — including abnormal behavior in animal populations — and to develop control strategies based on that knowledge. The role of the environment, population structure and dynamics, animal behavior and husbandry as determinants of health and disease will also be emphasized.

Epidemiology, biometrics and economics will form core disciplines of the department, says Martin, and it is expected that a vital link will be formed among the departments of Population Medicine, Mathematics and Statistics, and Agricultural Economics.

Martin and Leslie also proposed that the current liaison position provided by Agriculture Canada be placed in Population Medicine, and that the new department work closely with Ontario Ministry of Agriculture and Food species specialists in adjunct appointments. "This is especially important because of regulatory medicine, disease monitoring and food hygiene," says Martin.



Dr. Wayne Martin became the first chair of OVC's new Department of Population Medicine July 1. The epidemiologist moved over from the Department of Veterinary Microbiology and Immunology to head a department he worked for, more than two years to create.

The appointment is a fitting 20th anniversary gift for Martin — he completed his undergraduate work in OVC in 1967 before taking his M.Sc. and PhD at the University of California at Davis. He returned to OVC as a professor in VMI in 1974. Last year, he turned down an offer from California to chair its department of epidemiology.

Martin says he's glad he played a major role in the creation and development of OVC's fifth department. And to be founding chair of the new department is, he admits, exciting. "I got to start from scratch." Over the next five years, he wants to "establish an academically strong department, increase the amount of research, maintain the calibre of service and gradually shift the emphasis ... from the individual animal to the herd." O

The University of Guelph Staff Association executive celebrates after the pay equity bill receives third reading in the legislature. Pictured with the decorated cannon are, left to right, Ruth Switzer, recording secretary, Sheila Trainer, second vice-president, Lloyd Cummins, president, Mary-Ann Robinson, first vice-president, and Alan Miller, treasurer, with Jennifer Reader, chief representative and grievance officer, in front. John Talbot, manager, salary administration and records, Personnel, says that with the full co-operation of the University community, a successful pay equity plan could be developed and implemented on campus within two years of the bill being proclaimed.

The ugly book — Barrett writes on racism

Racism is alive and well and living in Canada.

That's the finding of Prof. Stan Barrett, Sociology and Anthropology, author of *Is God a Racist: The Right Wing in Canada*, which will be published this fall by University of Toronto Press.

Seven years in the making, the book is an overview of the organized far right and fringe right in Canada, with chapters on specific organizations such as the Ku Klux Klan and the Western Guard, as well as individuals who have been in the limelight in recent years, such as Ernst Zundel and Jim Keegstra.

Providing a synthesis of personal interviews and literature produced by many of the organizations, Barrett goes beyond mere reportage to point out the implications of right-wing attitudes for Canadian society. He concludes that right-wing organizations complement the institutionalized racism and anti-Semitism existing in Canada and suggests they are "two sides of the same coin."

Barrett was surprised and distressed by many of the findings of his research. He says the sheer number of organizations and the educational level of members contradict the common myth that white supremists are few and far between in Canada and that those who espouse such views are high school dropouts. There are at least 130 different groups existing in Canada today, he says, and many members and leaders have some post-secondary education; a substantial number are university graduates.

It is almost impossible to arrive at total figures for people involved in right-wing organizations, he says, because the groups exaggerate their numbers while politicians minimize them and tend to dismiss them as "just a few nuts." He does, however, have data on 586 individuals who are intensively involved in white supremist or anti-Semitic activities.

Another surprise, says Barrett, was the link between Christianity and racism and anti-Semitism. Most of the right-wing groups he encountered gave Biblical justifications for their views and beliefs and genuinely seemed to believe that their teachings are "God's will," he says.

His investigations also brought home to him the degree to which Canada is not exceptional. He says his view of Canada as a liberal and tolerant country has been exploded, both in terms of institutionalized racism and the number of people involved in extreme groups.

Many of the ideas contained in *Is God a Racist*, such as questioning whether education will eradicate racism, go against most published literature. "This is an honest book with honest data," says Barrett, "but I think the reaction of the state will be negative, because it flies against the myth of equality in Canada."

Barrett will return in November from a sabbatical in France to make a cross-country publicity tour for the book. But he has some misgivings about the tour; it might give publicity to groups such as the Ku Klux Klan rather than encouraging "average Canadians" to read about racism and anti-Semitism in their country, he says.

Although the book would be valuable for university courses dealing with prejudice, discrimination, inequality and stratification, Barrett says he will not use it himself for at least a few years, because he is still too emotionally involved. "I enjoy writing," he says, "but this is the first thing I've written that I didn't like doing." O

Library Hours

The following are the hours for the McLaughlin Library and the Veterinary Science Section for the fall semester.

McLaughlin Library

Sept. 8 to Sept. 13	Mon.-Fri.	8:30 a.m. to 10 p.m.
	Sat.-Sun.	noon to 10 p.m.
Sept. 14 to Nov. 8	Mon.-Fri.	8:30 a.m. to midnight
	Sat.-Sun.	noon to midnight
Reader Service	Mon.-Thurs.	8:30 a.m. to 9 p.m.
	Friday	8:30 a.m. to 4:45 p.m.
	Sat., Sun. & Holidays	noon to 4:30 p.m.

Veterinary Science Section

Sept. 8 to Sept. 27		
Section Open	Mon.-Fri.	8:30 a.m. to 10 p.m.
	Sat. & Sun.	noon to 10 p.m.
Sept. 28 to Nov. 15		
Section Open	Mon.-Thurs.	8:30 a.m. to 11 p.m.
	Friday	8:30 a.m. to 10 p.m.
	Sat. & Sun.	noon to 10 p.m.
Reader Service:	Mon.-Fri.	8:30 a.m. to 4:45 p.m.

Visiting Professor

Dr. Anders Nygaard, professor and head of the department of building and agriculture at the Agricultural University of Norway, is visiting in the School of Engineering until Sept. 25. His research interests include applied animal behavior, feed and manure handling lines, work safety in farm housing and the functional design of dairy housing systems, low-cost cattle meat production systems, pig housing and sheep and poultry systems. He is available for consultation at Ext. 2115.

Dr. Bill Stolte, associate professor of civil engineering at the University of Saskatchewan, is visiting the School of Engineering until June 30, 1988. He will be working with Prof. Trevor Dickinson in the area of the relationship between rainfall and snowmelt runoff areas, erosion and sediment transport. He has also done research on hillslope hydrology. Stolte is located in Room 213, Thornbrough building, Ext. 2433/2115. O

THE 'NEW' ARBORETUM

by Pamela Healey

Research, teaching, nature conservation and interpretation and cultural events — all are part of the "new" Arboretum, says director Keith Ronald.

Board of Governors and the President's Advisory Council are supportive about expanding use of The Arboretum to include plans for more public education and international symposia, new gardens, outdoor concerts and a twice-weekly dinner theatre, he says.

The Arboretum was initially established as a "living laboratory" to provide woody plant material to support research and teaching activities in OAC, says Ronald. Readily accessible to the campus, The Arboretum offers a diversity of topographic and microclimate characteristics, soil types and woody plant material.

With the opening of the OAC Centennial Arboretum Centre, the J.C. Taylor Nature Centre, and a combination nursery, research and service centre in the 1970s, The Arboretum became an educational and research facility equipped to provide a service to both the University and local communities.

Currently, the School of Landscape Architecture, the departments of Botany, Horticultural Science, Environmental Biology and Zoology and the College of Arts use The Arboretum's facilities for education and research. Some 22 people carry out research projects on-site in addition to those of Arboretum staff.

The Arboretum's 1970 master plan designated research mandates for the area that included gravel pit rehabilitation, woodlots, water features, decorative plantings and natural wooded preservation areas.

The Arboretum is a unique educational site, says Ronald, who would like to see the facility's public education uses, which now include Sunday afternoon walks and visits to the nature centre by schoolchildren, increase fivefold over the next few years. Several undergraduate courses are taught each year by Arboretum staff, individually or in collaboration with other University faculty, and there are graduate programs to the PhD level.

Arboreta or tree gardens have been around for centuries, usually as collections of exotic specimens of woody plants in the conservatories of the rich. But in the last century, the importance of indigenous species and their natural ecosystems has been recognized, says Ronald. The Arboretum is increasing the proportion nf trees and plants native to southern Ontario and decreasing that of exotics.

Ronald would like to see The Arboretum become a centre for conservation of natural resources and a site for world leaders to meet in colloquia on environmental topics. The first such symposium, titled "5,000 Days of Man," was held in April and focused on such global issues as pollution, the food crisis, the population explosion and energy from waste.

Keith Ronald

The Arboretum should hold a consultative position on environmental matters, says Ronald. An example is the proposed site for a garbage incinerator adjacent to the grounds. Arboretum staff have held two meetings — one with the steering committee of the proposed energy from waste plant, the other dealing with public attitudes.

Ronald sees The Arboretum as having a role in reforestation and greening of cities with native Canadian trees. The facility can also contribute to agroforestry, supplying commercially valuable trees to protect and supplement food crop agriculture and make use of marginal lands.

Plans for The Arboretum call for new urban wildlife and entrance gardens — the latter a well-marked meeting place clearly delineating the entrance point to the facility. Both gardens have already received support from two local citizens, says Ronald. Some of the University's colleges support special collections such as that of Canadian native trees, which is backed by the College of Biological Science.

Ronald says a garden is planned for the area around the OAC Centennial Arboretum Centre. This will lead from the building to intermediate formal landscaping, then to a full forest that will eventually grow from current small plantings.

Other future plans include outdoor concerts on The Arboretum grounds and a "Theatre in the Trees" in the OAC Centennial Arboretum Centre (see accompanying story and insert).

Ronald invites members of the University and Guelph communities to participate in activities at the "new" Arboretum to learn what this green oasis stands for in a cultural, scientific and educational sense.

Leslie at the Vatican

Philosophy professor John Leslie is one of 20 people who have been invited to participate in an international conference on "Science, Philosophy and Theology" at the Vatican later this month. Organized at the request of Pope John Paul II, the conference will meet for seven days at the Vatican Observatory in the papal summer residence near Rome.

Leslie, who will be at the Australian National University on a research fellowship at the time of the conference, will be flown to and from the Vatican for the event.

He says it is his interest in the philosophies of religion and cosmology that led to the invitation. In his book *Value and Existence*, published in 1979, Leslie looked at arguments for God's reality and asked the theoretical question: "Why does anything exist?" Readership of the book increased when Oxford philosopher J.L. Mackie discussed it in his own book, *The Miracle of Theism*, which considers philosophy of religion from Plato onwards.

Cosmology, a combination of physics, astronomy and philosophy, has many different theories. Leslie's special interest is the "anthropic principle." In its simplest form, this principle states that the laws of nature we observe must allow us to exist or we wouldn't be here to see them. An extreme form states that the laws exist to allow intelligent life to evolve.

Thanks to a Forster Fellowship, Leslie was able to present a paper to the 26th Liege International Astrophysical Colloquium in 1986, which was his first opportunity to directly address scientists on the concept. Currently he is editing *Physical Cosmology and Philosophy* for the Macmillan Co. In addition, he published the first paper on the cosmological "anthropic principle" to appear in a philosophical journal (the *American Philosophical Quarterly*).

Leslie has lectured on the subject at the Newton Conference at Cracow, Poland, as well as at Princeton, Notre Dame and Oregon universities. He gave a Mellon Foundation Lecture at the University of Pittsburgh and was a visiting professor in the philosophy of religion at the University of Calgary.

This is a field that seems almost like science-fiction, says Leslie, and it has captured the interest of philosophers, physicists and astronomers, as well as creating considerable popular interest with articles ... such magazines as *Scientific American*. His second book, now in the works, will be entitled *The Design of Our Universe*. ○

Our people

Prof. **Bill Harris**, Biomedical Sciences, is winner of the Norden 1987 Distinguished Teacher Award. On faculty since 1971, Harris will receive the award at the OVC student/faculty awards banquet Sept. 24.

Prof. **Terry Crowley**, History, is taking a year's leave of absence to teach at the Shenyang Architectural Engineering College in Shenyang City, China. He left Aug. 24.

Prof. **Peter Kevan**, Environmental Biology, has been elected a fellow of the Royal Entomological Society.

Norm Lightfoot, Media Productions, has won the Jack Ward Film Award of the American Animal Behavior Society for his film "Whitecoat" about whitecoated harp seal pups. "The Hooded Seal," a Lightfoot film produced for the University, was a semifinalist.

The Department of Nutritional Sciences recently honored four retiring members of the staff with a reception at the Faculty Club. Roma **Dunn**, **Edward (Rusty) Emslie**, **Vera Peacock** and **Alice Wilson** together had 145 years of service in the department.

Prof. **Jim Wilton**, Animal and Poultry Science, has received the animal breeding and genetics award of the American Society of Animal Science. Internationally known for his scholarship and research in animal breeding, Wilton pioneered in the application of linear programming and systems analyses techniques to beef cattle breeding.

Prof. **Ted Burnside**, Animal and Poultry Science, and director of the Centre for Genetic Improvement of Livestock, is the first Canadian to receive the J.L. Lush Award in animal breeding and genetics from the American Dairy Science Association. Burnside, who has been a pioneer in the implementation and development of linear programming techniques applied to dairy cattle breeding decision making, received the award at the association's annual meeting in Missouri. ○

Gala opening night for Theatre in the Trees

Beginning this fall, the OAC Centennial Centre at The Arboretum will provide a unique setting for a twice-weekly "Theatre in the Trees."

Following an evening buffet catered by Food Services, the Theatre Downstairs Players will perform "Suitehearts," a modern comedy by William Van Zandt and Jane Milmore, depicting the antics of two honeymoon couples vying for the same hotel suite.

Doors open at 6 p.m., dinner is at 6:30 p.m., and curtain time for the two-act play is 8 p.m.

Director of the play is John Snowdon, who has been involved in amateur and professional theatre for 25 years as an actor, set designer, director and stage manager. His cast and crew have performed throughout southern Ontario, with local appearances at the Duke of Grafton and the College Motor Inn dinner theatres.

A gala opening night is planned for Sept. 26, with regular performances to follow Oct. 2, 3, 16, 17, 23 and 24 and Nov. 6, 7, 13, 14, 20 and 21. Food Services will provide a special and varied menu, including a full salad bar, main entrees and desserts. A new play will begin early in December and a third show is planned for mid-February.

Tickets for the "Theatre in the Trees" are available at the University Centre box office at a cost of $25.50 per person.

The concept of a theatre in the trees is an exciting part of The Arboretum's program, says President Burt Matthews, who is honorable patron of the theatre. "It provides still annther opportunity for people on campus and in the Guelph community to enjoy this natural resource. I hope this is the beginning of a long tradition." ○

Isabelle Savage cuts the ribbon at the dedication ceremony of Fielding House June 18, assisted by Prof. Archie MacKinnon, director of the Centre for International Programs, and Kath Beaven, assistant to the director. Fielding House, the centre's headquarters, was acquired by the University in 1982. The Fielding name has a 50-year history in Guelph — J.C. Fielding was a local tea merchant, and the J.C. Fielding Tea House still stands on Dublin Street. Fielding had two children — Eugene and Isabelle. Eugene built the house in the early 1920s, and Isabelle, who attended Macdonald Institute, lived there until her 1933 marriage to Laurence Savage of Savage Shoes. A history of the house and the family is on permanent display at the centre.

Photo by John Majorossy, Photographic Services

The land conflicts of rural Mexico

by Pamela Healey

For many Mexicans, the 1910 revolution is not yet over. Poor peasants and small landowners continue to battle for possession of agricultural land in many parts of rural Mexico.

Prof. Frans Schryer, Sociology & Anthropology, lived in Mexico for many years, assimilating into rural communities to discover the peasants' true plight and the reasons behind their situation.

Although the revolution was motivated by a desire for social justice and economic reform, Schryer says more than a third of Mexicans continue to live in poverty. A high level of income inequality, especially in the rural areas, is resulting in increasing social conflict and renewed attempts at land reform by the government. He blames many of today's problems on the rapid but lopsided growth of the Mexican economy prior to 1970, particularly in the agricultural sector.

For centuries, most Mexicans worked on huge haciendas for wealthy landowners. Many of these hacienda workers were bound to the land for life in payment of debts, a system called "peonage." The post-revolutionary constitution of 1917 declared peonage illegal and instituted the system of "ejidos" — farmland held in common by communities and used primarily for subsistence agriculture. Members can pass the land on to their children but can't rent, mortgage or sell it.

Schryer says, however, that it is the small landowners, who today still own a third of Mexico's arable land, who have benefited from 20th-century agrarian reform and not the peasants, who complain that their standard of living has actually declined since the revolution. In fact, many of the peasants have had to rent out their ejido land to private landowners or agribusiness and then work as day laborers on their own land.

Mexico's huge rural population continues to depend partly on subsistence agriculture, partly on wages earned as farm workers and partly on whatever other activities can provide some kind of income. The government, concerned with earning foreign dividends to offset an unfavorable balance of payments, has neglected these peasants, and encouraged mechanization, extensive cattle production and profitable export crops without regard for the subsequent rise in rural unemployment and poverty, says Schryer.

Unstable or declining prices for cash crops such as coffee, problems with erosion and reduced soil productivity from outmoded agricultural techniques and recent government policies have motivated small landowners in many parts of Mexico to stop growing traditional crops and turn their arable land into pasture, hoping to take advantage of rising beef prices. These landowners stopped renting parcels of land to peasants and also monopolized all remaining sections of jungle for conversion to grazing land.

Schryer says peasants were faced with reduced access to land for traditional subsistence agriculture and decreasing opportunities for employment previously provided by such labor-intensive enterprises as sugar and coffee. With no alternative sources of income, peasants were forced into further demands for access to land.

Schryer's study focused on the district of Huejutla, a densely populated, semi-tropical region in the Sierra Madre Mountains near the coastal plain of the Gulf of Mexico and one of the most violent and conflict-ridden parts of rural Mexico. Expansion of modern cattle production in the 1970s by local landowners has resulted in severe economic hardships for peasants, many of whom belong to the large, indigenous, nahuatl (Aztec)-speaking population. Following futile attempts to persuade the government to implement land reform, the frustrated peasants cut fences, confiscated coffee orchards and ripped out cultivated grasses. Abductions, beatings and executions resulted when both sides took the law into their own hands.

The Mexican government responded to this violence by expropriating land, redefining boundaries and reimbursing some landowners, says Schryer. But conflicts remain, mainly because of the complicated and confusing land tenure system. He says distinctions between private land and the ejidos are hazy.

In the past, peasants often illegally sold communal lands to private landowners, but now they want restoration of former communal land boundaries and extension of already existing ejidos. Landowners claim they have deeds of ownership to these same lands and the right to use them for cattle production.

Schryer predicts further violent conflicts between peasants and small landowners if the Mexican government continues to neglect the needs of most rural inhabitants.

Schryer has just finished writing a book based on his research in Huejutla. He describes land conflicts there and how they have even cut across ethnic and linguistic boundaries. He also examines the failures of rural development projects in this ethnically diverse rural area of Mexico. O

Cultivating caribou 'cloth'

More than a million caribou range the tundra and taiga of northern Canada and Alaska. These animals are hunted for their meat, but their hair is usually discarded. Prof. Keith Slater, Consumer Studies, says he would like to change that. He has tested samples of caribou hair to see if it can be developed as a textile and possibly as the basis of a commercial production line in the Canadian Arctic.

Slater's study of caribou hair was initiated at the request of Robin Goodfellow, a freelance radio broadcaster who has lived in the north and learned about caribou from the local people. Goodfellow provided knitted, felted and woven samples of a caribou/sheep's wool blend, which Slater tested for strength, thickness, and thermal and abrasion resistance.

He discovered that the blend is stable, lightweight and warm, only slightly inferior to pure wool in strength and abrasion and superior in thickness and thermal resistance. On its own, caribou hair is weak and brittle and can't be used as a material for spinning and weaving.

The warmth comes from many enclosed cells in the caribou hair fibres. The wool/caribou fabric has double the warmth and thickness of an all-wool sample but just a little over half the weight. This combination of light weight and good thermal insulation is ideal for winter clothing.

Slater says caribou fabrics are also pleasant to touch and dye well, producing a tweed-like effect. The knitted and woven cloth is strong enough to be used alone for mitts or blankets. Felted fabrics, with their added bulk and thermal insulation, are suitable for boot liners or interlining materials.

In the past, Inuit stuffed caribou hair into pouches in their clothing for insulation from the cold. They also used it to stuff the core of balls, for bumpers on boats and for homemade life jackets. Now the Inuit usually leave the hair on the skin for a warm sleeping mat.

Goodfellow has talked to people at the Department of Indian and Northern Affairs and Development and the government of the Northwest Territories about initiating commercial production of cloth made from caribou hair and wool. The biggest problem to be overcome, says Slater, is the cost of transporting sheep's wool to the Arctic. O

Three teachers from Cameroon were on campus from early June to mid-August to attend the first course held here as part of the Guelph-Yaounde project, which focuses on training in the field of African literature. It was taught by Prof. Jim Shute, Rural Extension Studies, and graduate students from that department, the School of Rural Planning and Development and the Centre for International Programs. The teachers learned project design, program management and human relations. They designed a manual on project management to take back to Cameroon, where they will be holding workshops for fellow members of an association for creative learning. Left to right: Janet Sillifant, co-ordinator of the project management course; Miye Martin Tatah, Obenojongndip Robert Oben and Fokwang John Koyela from Cameroon, receiving course certificates; Prof. Doug Killam, chair of the Department of English Language and Literature and Canadian co-ordinator of the Guelph/Yaounde project; and Elizabeth Cockburn, technical adviser to the Guelph/Yaounde project and co-ordinator of international training on campus.

Photo by Herb Rauscher, Photographic Services

The reckless ones

Prof. Mike Matthews, Psychology, is trying to discover why the car accident rate is so high among teenagers, and what can be done to improve the situation. He says the tendency of young drivers to take greater risks may be the most important factor.

According to published, mileage-adjusted accident statistics, young men and senior citizens are at the highest risk of traffic accidents. Women under 25 have less than half the mileage-adjusted accident rate of young men; adults between 35 and 50 have the lowest rate of all.

Research on the driving behavior of young males shows that they tend to speed more often, are involved in more rear-end collisions and approach traffic signals at higher speeds. They also tend to drive closer to the car ahead, pull into traffic with a shorter headway and underestimate stopping distances, says Matthews.

Because their driving skills are not as well developed as more experienced drivers, they take longer to perceive and respond to potentially dangerous traffic situations. Although factors such as the age of the car, the amount of nighttime driving and alcohol consumption all influence accident rates, Matthews believes the most important factor may be the tendency of young drivers to take greater risks.

People generally try to avoid risk when driving. They may, however, become less cautious because they don't see the risk and the potential consequences of a particular situation. In some cases, drivers are sufficiently motivated to take the risk, even though they appreciate the danger.

Matthews' research concentrated on risk perception. Drivers in the 18 to 25, 35 to 50 and 65 and over age groups looked at videotapes showing a driver's eye view of a variety of potentially risky situations — a wet, two-lane highway at night, for example, or a front tire blowout on a sharp curve. The situations involved driving judgment, reflexes and vehicle handling skills. Participants were asked to estimate the risk of each situation for themselves and their peers and to rate their own and their peers' ability in handling risky driving situations.

Matthews found that younger male drivers not only see a much lower risk in certain potentially hazardous situations than older, more experienced drivers do, they also overestimate their own ability to cope with such situations. They see the situations as risky for their peers, but not for themselves because they believe they have the necessary skills and abilities to avoid accidents. Both the young males and the over 65 groups believe their ability to handle a car is as good as that of a driver of 35 to 50.

Overconfidence may cause young drivers to underestimate the risks in some driving situations, says Matthews. "The distressing thing is that their perceptions are really the reverse of reality. They see their abilities high and the risk low when the opposite is actually true."

Matthews hopes to eventually identify countermeasures to use in driver training programs for young people to make them more aware of the limitations of their driving abilities and the physical risks involved in operating a vehicle. Currently, driver training programs do little to provide appropriate experiences to develop the perception of risk and hazard.

Matthews says the problem of risk perception while driving may be part of a general lifestyle orientation. Deciding whether to purchase a house next to a nuclear hydro generating plant, selecting investments, choosing when to cross the road in heavy traffic and planning a holiday in a foreign country in view of international terrorism are all situations where risk perception influences people's actions.

Matthews has developed a questionnaire that attempts to assess how people view risk in various situations. Results demonstrate with a high degree of accuracy that involvement of college-age young people in traffic accidents or moving violations can be predicted from overall lifestyle risk orientation and perception.

Funding for the driving study came from the Gerontology Research Centre and the Natural Sciences and Engineering Research Council. O

Briefly

The Guelph-Wellington Counselling Service seeks volunteers interested in helping single parents and people who are separated or divorced adjust to their new way of life. No experience is necessary; training is provided. Anyone interested in volunteering should call Chris Vrooman, volunteer co-ordinator for the centre, at 824-2431 between 9 a.m. and 5 p.m.

The Guelph International Resource Centre has moved from King Street to 62 Yarmouth St.

The Cardio-Vascular Club, conducted by retired Human Biology professor John Powell, meets from 12:15 to 12:45 p.m., Monday to Friday, on the Athletics Centre track. (Rain location is the wrestling room of the Athletics Centre.) Anyone wishing to join the club, which is now in its 23rd year, must present a current medical certificate.

Eleven Rhodes Scholarships are open for Canadian students in 1988 and will be awarded in late November. Applications must be in by Oct. 23. The scholarships are tenable at the University of Oxford, England, and are valued at about $20,000 a year. Candidates must be Canadian citizens or resident in Canada, unmarried, born between Oct. 2, 1963, and Oct. 1, 1969, and have completed at least three years of university training by Oct. 1, 1988. Further information and application forms can be obtained from the Registrar's Office or from the General Secretary for the Rhodes Scholarships in Canada, P.O. Box 48, Toronto-Dominion Centre, Toronto M5K 1E6, 416-362-1812. Students who are ordinarily resident in Newfoundland are invited to apply for the Rhodes Scholarship Newfoundland. Send applications to Augustus G. Lilly, Secretary for the Rhodes Scholarship in Newfoundland, 11 Long Pond Rd., St. John's, Nfld. A1B 1N6.

The Development Education Program has available five current South Korean newsletters and magazines. The materials are not accessed often enough to be kept in the resource centre and will be donated to those interested. For more information, call Ext. 6915.

The Humanities Association's program for 1987/88 will include discussions of "Victorian Architecture in Guelph," the "Films of Norman McLaren," "Psychology and the Law" and the "Social Impact of Computers." For details of the program and application forms, contact Joan Johnston, McLaughlin Library, Ext. 2316.

Continuing Education, in co-operation with the Ontario Ministry of Agriculture and Food, offers more than 60 agriculture and horticulture courses in its home study program. All provide practical information for people who want to learn a new skill or upgrade an old one. For more information, call Ext. 3956.

The Social Sciences and Humanities Research Council awarded $64.4 million in grants and fellowships in 1986/87. SSHRC president William Taylor says the council faced two major challenges over the past year — to implement the government's new matching funds policy and to cut operating costs.

The Guelph-Waterloo Centre for Graduate Work in Chemistry will hold its annual Saturday seminar Sept. 26 on the Waterloo campus. An open lecture will be presented by Dr. George Ferguson at 4 p.m. in Room C2-171. His topic is "Chemical Crystallography: Past, Present, Future."

The Library is offering sessions to demonstrate its new automated catalogue systems. Sessions will be held Sept. 9 at 11 a.m., Sept. 14 at 3 p.m., Sept. 15 at 2:10 p.m., Sept. 23 at 11:10 a.m. and Sept. 30 at 6:10 p.m. If you wish to attend one, call the Library/Information Desk at Ext. 3617.

The Gerontology Student Association is sponsoring an evening with Dr. Robert McClure, former medical missionary and moderator of the United Church of Canada, Oct. 1 at 8 p.m. in Creelman Hall. Tickets are $5 at the door or $4.50 in advance at the University Centre box office. Advance admission for students and seniors is $3.

The Instructional Development grants program has received funding of $35,000 a year for the next three years from the New Initiatives Fund. The grants are available to any faculty member who wishes to do development work on a Senate-approved course. The project should be innovative and a new initiative for the course and must have matching departmental funding. For application guidelines, call the Office for Educational Practice at Ext. 3106.

The College Women's Club is holding a membership tea Sept. 15 from 2 to 4 p.m. and from 7:30 to 9 p.m. at the President's House. The club has a variety of interest groups for members, ranging from crafts, baking and bridge to book reviews, theatre trips and singing. For a ride, call Helen Mowat, 836-2484.

The Department of Physics begins its annual seminar series Sept. 15 with Dr. Marshall McCall, department of astronomy, University of Toronto, discussing "The Universe after Supernova Shelton." McCall will provide an up-to-date report on the supernova discovered this year by U of T astronomer Ian Shelton in the Large Magellanic Cloud and will discuss its impact on our knowledge about the universe. The seminar begins at 4 p.m. in Room 113, MacNaughton (Physical Sciences) building.

The Ecumenical Campus Ministry, which encompasses Anglican, Presbyterian, United and Lutheran ministries, sponsors a variety of worship and fellowship programs throughout the semester. Each Sunday, an ecumenical service is held at 10:30 a.m. in Room 103 of the University Centre. Holy Communion is held in the Chapel on Level 5 of the centre Wednesdays at 12:10 p.m. and Fridays at 1:10 p.m. On Thursdays, the ministry sponsors a lunchtime fellowship with speakers from noon to 2 p.m. in Room 335, UC, and a social evening from 5 to 6 p.m. in the Mature Students Lounge, Level 5, UC. Beginning Sept. 29, a Bible study will be held Tuesdays from 7 to 9 p.m. in Room 332, UC. For more information, contact Rev. Dorothy Barker, Room 151, Johnston Hall, Ext. 2390.

The College of Biological Science begins a series of Thursday seminars focusing on what's new in biological research Sept. 17 with a discussion of "Molecules to Men: The Concept of Progress in Evolutionary Biology." Speaker is Prof. Michael Ruse, Philosophy. On Sept. 24, the topic is "Migration and Human Adaptation" with Dr. Michael Little, department of anthropology, State University of New York at Binghamton. The one-hour seminars, which run weekly until Dec. 3, begin at 1 p.m. in Room 102 of the J.D. MacLachlan building.

The Athletics Department will hold its annual dance workshop Oct. 17. Classes will include modern dance technique, modern jazz and body awareness classes. Melinda Welty, special guest artist from Les Ballet Jazz of Montreal, will teach a master class in modern jazz. Gabby Kamino, choreographer for the Kerry Leach Figure Skating School, will teach modern dance technique. Classes will run from 10 a.m. to 4:30 p.m. Individuals can register for the complete workshop or single classes. For more information, call workshop co-ordinator Cathy O'Brien at Ext. 2152 or 2215.

The 1987/88 Performance season of the University Centre includes theatre, dance, opera, lectures and a children's series. The season opens Oct. 7 with the Blyth Festival production of *Another Season's Promise*. Other plays scheduled are *Merely Players* with Barry Morse Jan. 13 and the Vancouver Arts Club Theatre's production of Oscar Wilde's *The Importance of Being Earnest* Feb. 17. The season also includes a Oct. 17 appearance by Les Ballets Jazz of Montreal and a Nov. 18 appearance by the Canadian Opera Company Ensemble performing "The Tales of Hoffman."

A lecture series begins Sept. 30 with author John Stockwell discussing "The Secret Wars of the CIA." On Oct. 21, Dith Pran, Cambodian hero of "The Killing Fields," speaks on "Living in the Killing Fields." And on Nov. 11, Paul Watson, founder of the Sea Shepherd, examines the "Preservation and Protection of Wildlife by Direct Confrontation."

This year's children's series features singer Sandra Beech Oct. 31, the "Polka Dot Door" Nov. 28, Mr. Dressup Feb. 7 and "Romper Room and Friends" March 26. All shows and lectures are in War Memorial Hall. For ticket information, call Ext. 3940. Series tickets are available for the plays and the children's program.

A Fully Furnished, self-contained apartment is available for rent at Guelph London House in London, England, from Oct. 1 to Dec. 31, 1987. The apartment has a full kitchen, private bathroom, one double and two single beds with linens supplied. Rent for the three-month period is $2,100, including utilities. For more information, call property manager John Wills, Ext. 2734.

American Artist Alan Gussow, a pioneer in the art and ecology movement, will be visiting the Department of Landscape Architecture Sept. 22 and 23. On Sept 22 at 5 p.m., he will give a public lecture on "The Function of Art in a Nuclear Age" in Room 204, Landscape Architecture building.

Winners of the University Centre's coffee contest were recently presented with their prizes. Cynthia Ruby, Department of Crop Science, received first prize — free coffee for a year. HAFA student Linda McNevin won second prize — free coffee for a semester. The third prize of a coffeemaker went to Anthony Clarke, Department of Chemistry and Biochemistry.

"All on the Family," a continuing education conference aimed at supporting the implementation phase of the revised Ontario Ministry of Education family studies curriculum guideline, will be held on campus Sept. 19. Sponsored by the Ontario Family Studies Home Economics Educators Association (OFSHEEA) and FACS, the conference features a keynote address on "Assessing the Family ABCs" by Prof. Claude Guldner, Family Studies, as well as sessions on a variety of family studies topics. Cost of the conference is $100 general, $85 for Mac-FACS alumni and members of OFSHEEA and $40 for full-time students. For registration information, call Continuing Education, Ext. 3957.

Free Fitness Classes are being offered in the Athletics Centre Sept. 10 to 15 at 12:10 p.m.

CSA Vice-President Craig Sanderson, a last-minute independent entry into the provincial election in Guelph, had to curtail many of his campaigning plans after suffering whiplash in a car accident. In announcing his candidacy, Sanderson said he decided to run because of a lack of knowledge by the other local candidates on student issues and concerns.

The Guelph International Film Festival presents its fourth annual Festival of Third Cinema (film and video from the Third World) Oct. 22 to 25. This year's festival is based on the theme of the "UN International Year of Shelter for the Homeless." Screening locations are the University, the Loft on Carden Street and the Odeon Theatre. Highlights include a gala opening and closing with renowned Indian director Mrinal Sen, a film workshop with Chilean filmmakers, more than 30 films and videos, a photo exhibition on the homeless, a children's matinee program and an international craft sale. For more information, call Julia Gualtiera or Mary-Ann Cheesequay at 836-8885.

The Graduate Students Association has initiated a housing registry program. If you need accommodation or you have accommodation you could rent to a graduate student, come to the Grad Lounge or the GSA office on Level 5 of the University Centre, or send the appropriate information to the orientation and liaison committee of the GSA, Room 531, UC.

All University Employees are reminded that the stickers on their ID cards expired Sept. 6 and that they should obtain revalidation stickers for the current year from their department secretary or administrative assistant.

At Guelph gets 'Punch'ed

A recent "Coming Events" item in *At Guelph* about a Wednesday evening excursion in The Arboretum entitled "Sex in the Fields" made it to *Punch* magazine's "Country Life" column July 1. It was submitted to the humor column by Prof. David Piggins, Psychology.

Piggins, who received five English pounds for the submission, has not, as yet, offered to share his windfall with either the staff of The Arboretum or *At Guelph*. Obviously, he's just waiting for the right moment. O

Positions elsewhere

Notice of the following vaconcies outside the University has been received by the Office of the President.

The Technical University of Nova Scotia seeks applications and nominations for the position of president, to assume duties July 1, 1988. Applications with curriculum vitae and names of three referees should be submitted by Sept. 30 to W.H. Gates, Chairman, Presidential Search Committee, P.O. Box 8388, Station "A", Halifax, N.S. B3K 5M1.

The University of British Columbia seeks candidates for the position of vice-president, research, to take office in early 1988. Reply with a curriculum vitae and the names of three referees to Dr. D. W. Strangway, President, University of British Columbia, 6382 Memorial Rd., Vancouver, B.C. V6T 2B3.

The University of Calgary seeks a director of alumni affairs. Letters of application should be addressed to the Employee Relations Department, University of Calgary, 2500 University Drive NW, Calgary, Alta. T2N 1N4. O

Campus Canada

Niagara College will receive $6 million from the provincial government to build a training centre for the college's tourism and hospitality programs.

Canadore College in North Bay will receive $2.7 million from the Ministry of Colleges and Universities to buy a local jeans factory, where the college has been leasing space for the past year. The purchase will enable the college to consolidate its programs in one location. O

Personals

For Sale: Upright grand piano; 1978 Volare, excellent condition, 821-1186. Cedar bedframe and mattress, brown pull-out couch, oak dresser, armchairs, pair of loveseats, 822-0260. Hand-knitted beige cardigan, size large; beige India blouse, size small, Monique, Ext. 8557 or 822-1873, evenings. French Provincial cherry wood double bed with new mattress and box spring, Ext. 2408 or 821-9504. New stainless steel sink; child's bike carrier; ladies' bicycle; child's and ladies' white skates; men's skates; men's down-filled jacket; window mirror; "Barbie" van, 822-3129. Sofa and matching armchair, combination bookcase/wall unit, bamboo roll-up blinds, 88" and 44", Ext. 4060 or 821-1634, after 5:30 p.m. House of Brougham five-foot trestle table, dark pine, Ext. 3259 or 836-0153. Brown suede winter coat with fur collar, brown rabbit fur, new blue-and-white-striped dress, all size 10, Cathy, 822-5803. 1980 Dodge Omni 024, automatic, AM/FM radio, 824-7093, after 6 p.m. 1977 Yamaha XS-750, 750 cc, certified, Art, Ext. 3926 or 1-894-5348 (Kitchener). Thermofax machine (for overheads and stencils), Ext. 3883. 1981 Camaro, small V8, new brakes and exhaust system, 836-7053. Simmons solid-oak change table, new, 837-2205, after 5 p.m. 110-acre farm on County Road 7, Elora, spring creek and trout pond, house and barn, 846-5157 or 763-5964. One 12-inch and one 16-inch television, good working order, 822-7846. 1980 Volvo station wagon, certified, 822-3312, after 5 p.m.

Wanted: Ride from University of Waterloo to University of Guelph, mornings, to return at 4:30 p.m., Monday to Friday, will share expenses, Yvonne, Ext. 2281 or 884-5022, after 5 p.m.

For Rent: Large stalls in private stable north of Guelph, 823-5498. Two furnished rooms, Harvard Road, women preferred, $45 weekly, 823-1159.

"Personals" is a free service offered by At Guelph *for staff, faculty and students at the University. All items must be typed, double spaced, and submitted to* At Guelph *one week before publication.*

Coming events

THURSDAY, Sept. 10

Schedule of Dates - Classes commence.
Orientation - Plant Sale, 9:30 a.m. to 4:30 p.m., University Centre courtyard; Departmental Displays, 10 a.m. to 4 p.m., UC courtyard; Lost and Hungry? 10 a.m. to 4 p.m., Branion Plaza; International Student Luncheon, noon, UC 441; Fitness Class, noon, main gym, Athletics Centre; Co-ed Aquafit Class, 1 p.m., pool, AC; Big 4 Monster Mash, 4 p.m., Johnston Green; Co-Ed Swimming Improvement Clinic and Evaluation, 4:30 p.m., pool; Community Gathering, 5 p.m., sponsored by the Ecumenical Campus Ministry, UC 332; "It's Your Choice" Party, 5:30 p.m., East Residence Fireplace Lounge; Jello Smurfing Contest, 6 p.m., Johnston Green; Social Evening, 6 to 9 p.m., sponsored by the University Catholic Community, UC 335; Sports Trivia, 6 p.m., Boo Bar, UC Level 2; Intervarsity Christian Fellowship Introductory Meeting, UC 103; "Toga, Toga, Toga," 9 p.m., Mills and Johnston halls and Prairie Hall cafeteria; Interhall's Annual Kick-off Pub, 9 p.m., Peter Clark Hall; "End of the Summer" Party, sponsored by Social Science student government, 9 p.m.
Worship - Social Evening, Ecumenical Campus Ministry, 5 p.m., Mature Students Lounge, UC Level 5; Explorations in Meditative Prayer, Chapel, UC Level 5; Christian Coffee House, Great Commission Students, 7:30 p.m., UC 103.

FRIDAY, Sept. 11

Schedule of Dates - Last day for clearance to graduate for fall convocation.
Worship - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Ecumenical Holy Communion, 1:10 p.m., Chapel.
Orientation - Poster and Flag Sale, 9 a.m to 4 p.m., UC courtyard; Departmental Displays, 10 a.m. to 4 p.m., UC courtyard; Fitness Class, noon, main gym, Athletics Centre; Co-ed Aquafit Class, 1 p.m., pool; East Athletics Tournament, 4 p.m.; Co-ed Swimming Improvement Clinic and Evaluation, 4:30 p.m., pool; Human Kinetics Barbecue, 5 p.m., School of Human Biology; Video and Pinball Tournament, 6 p.m., Boo Bar, UC Level 2; CSA Welcome Party, 8 p.m., Peter Clark Hall; Floor to Floor Party, 9 p.m., Watson Hall — International House; Video Nite, 9 p.m., Mac Hall Fireplace Lounge; Party Promenade, Interhall Council, 9 p.m. to 1 a.m.; Human Kinetics Pub, 9 p.m., Creelman Hall.

SATURDAY, Sept. 12

Orientation - Study Skills Workshop, 9 a.m. to 3 p.m., register at Connection Desk, UC Level 3, by Sept. 11; No Brekky? 10 a.m., Lennox-Addington; Johnston/Maids Pancake Breakfast, 10 a.m., Maids Hall Lounge; Mac 'n' Mills Breakfast, 10:30 a.m., Mills Hall Lounge; South Syrupy Saturday, 10:30 a.m., south quad; OCUS Pep Rally, 12:30 p.m., TV lounge, UC Level 0; Fall Frosh Challenge, 1 to 4 p.m., Johnston Green; IVCF Trip to Elora, 1 to 8 p.m.; Family Swim, 2 p.m., Swim Lengths, 3:30 p.m., pool; Challenge Awards Party, 9 p.m., UC courtyard.

SUNDAY, Sept. 13

Worship - Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry (Anglican, Presbyterian, United, Lutheran), 10:30 a.m., Chapel, UC Level 5.
Orientation - "Summertime, Summertime," 1 to 4 p.m., Johnston Green; Fun in the Sun, 1 to 4 p.m., buses leave for Elora Gorge from Prairie Hall parking lot at 1 p.m.; Family Swim, 1 p.m., Swim Lengths, 3:30 p.m., pool; Bicycle Tour of Guelph, 2 p.m., UC south doors; Hollywood Nites, 8 p.m., Maid's Hall Lounge, Mac Hall, Lennox-Addington, Lambton and East Residence fireplace lounges.

MONDAY, Sept. 14

Schedule of Dates - Last day for late registration — DVM program.
Orientation - "Eat Your Way to Fame and Fortune," 11 a.m. to 1 p.m., Branion Plaza; Second Annual Biological Science Games, 8 p.m., Creelman Hall.
Open Meeting - Selection Committee for President, 5:10 p.m., MacNaughton 113.
Worship - Roman Catholic Mass, 5:10 p.m., Chapel, UC level 5.
Aggie Week - Leg Auction, 7 p.m., UC courtyard.

TUESDAY, Sept. 15

Worship - Roman Catholic Mass, 12:10 p.m., Chapel, UC Level 5.
Our World - "Nicaragua: Update," 12:10 p.m., UC 442.
College Women's Club - Membership Tea, 2 to 4 p.m. and 7:30 to 9 p.m., President's House.
Physics Seminar - "The Universe after Supernova Shelton," Marshall McCall, 4 p.m., MacNaughton 113.
Senate - Meeting, 8 p.m., MacNaughton 113.

WEDNESDAY, Sept. 16

Schedule of Dates - Last day for late registration.
Poster Sale - 8 a.m. to midnight, UC 103.
Concert - Beverly Bratty, noon, UC courtyard.
Worship - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5.

THURSDAY, Sept. 17

Concert - Kevin McMillan and John Greer, baritone and piano, 12:10 and 1:10 p.m., MacKinnon 107, free.
Botany Seminar - "Molecules to Men: The Concept of Progress in Evolutionary Biology," Michael Ruse, 1 p.m., J.D. MacLachlan building 102.
Worship - Meet and Eat, noon, UC 335; Social Evening, Ecumenical Campus Ministry, 5 p.m., Mature Students Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Social Evening, Roman Catholic Ministry, 6 to 9 p.m., UC 335; Christian Coffee House, Great Commission Students, 7:30 p.m., UC 103.

FRIDAY, Sept. 18

Worship - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Ecumenical Holy Communion, 1:10 p.m., Chapel, UC Level 5.

SUNDAY, Sept. 20

Worship - Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry, 10:30 a.m., Chapel, UC Level 5; Great Commission International, 11 a.m., MacNaughton 105.

MONDAY, Sept. 21

Worship - Roman Catholic Mass, 5:10 p.m., Chapel, UC level 5.

TUESDAY, Sept. 22

Worship - Roman Catholic Mass, 12:10 p.m., Chapel, UC Level 5.
Our World - "The Colors of Hope," 12:10 p.m., UC 442.

WEDNESDAY, Sept. 23

Concert - Lambert and Jones, noon, UC courtyard.
Worship - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5; Great Commission Students fellowship meeting, 763-1282 for more information.
Red Cross - Blood Donor Clinic, 10 a.m. to 5 p.m., Peter Clark Hall.

Cover photo: Students under the portico on Johnston Green
Photo by Jan Pisarczyk, Piruk Studios, Waterloo

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UNIVERSITY of GUELPH

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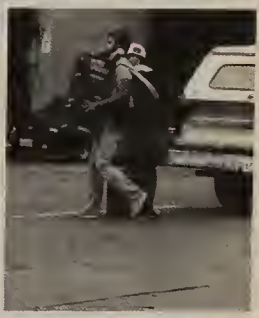

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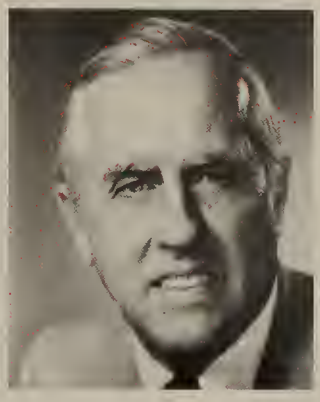
UNIVERSITY of GUELPH

At Guelph



Harry Rowsell

Robert Dunlop

Douglas Blood

Honors to three at special convocation

OVC will celebrate its 125th anniversary with a special convocation ceremony Sept. 25 at 3 p.m. in War Memorial Hall.

During the ceremony, honorary doctor of laws degrees will be bestowed on three men who have distinguished themselves in the field of veterinary medicine — Dr. Harry Rowsell, executive director of the Canadian Council on Animal Care, Dr. Robert Dunlop, dean of the College of Veterinary Medicine at the University of Minnesota, and Dr. Douglas Blood, who retired in 1985 from the chair of veterinary medicine at the University of Melbourne, Australia.

Rowsell graduated from OVC in 1949 and completed a PhD in veterinary pathology at the University of Minnesota. He returned to OVC in 1953 as an assistant in research, then went on to become a full professor in the department of physiological sciences, where he remained until 1965. At that time, he became the first chair of the department of veterinary pathology at the University of Saskatchewan. In 1968, he became the founding executive director of the CCAC. From 1970 to 1986, he also taught in the department of pathology at the University of Ottawa and chaired the Animal Care Committee.

Rowsell is the author of almost 200 papers and abstracts, focusing largely on the field of hemostasis and arteriovascular disease. A leading advocate of animal care and welfare, he is internationally recognized as an authority in this area. In 1978, he was the first recipient of the Lois H. Carroll Humanitarian Award of the Canadian Federation of Humane Societies.

His international awards include the medal of the Academy of Medical Sciences, U.S.S.R., and an honorary professorship from Peking Union Medical College, Beijing, China.

Dunlop graduated first in his class from OVC in 1956 and went on to do a PhD in veterinary physiology and pharmacology at the University of Minnesota. After serving as a clinical pathologist with Wickham Laboratories in England and as associate professor of pharmacology at Cornell University, he was named the first head of the department of physiologic sciences at the University of Saskatchewan in 1965.

In 1971, he became founding dean of the faculty of veterinary science at Makerere University in Uganda, under the sponsorship of the Canadian International Development Agency. In 1973, he helped found the School of Veterinary Studies at Murdoch University in Western Australia, where he remained as dean and foundation professor of veterinary science until 1980. He then returned to Minnesota to take up his current position as dean and professor of large animal clinical sciences.

Known for his work in ruminant pathophysiology, Dunlop has published papers, laboratory manuals and teaching films on lactic acidosis and toxemia in ruminants, as well as on polioencephalomalacia and thiamine deficiency, pharmacology and chemotherapy, toxicology and veterinary services. In 1967, he won first prize in the International Lactic Acid Essay Competition.

Dunlop is a member of the Royal College of Veterinary Surgeons and the Australian College of Veterinary Scientists and is a fellow of the American Academy of Veterinary Pharmacology and Therapeutics.

Blood holds a B.V.Sc. from the University of Sydney and an M.V.Sc. from the University of Melbourne. He taught at Sydney from 1945 to 1950 and from 1951 to 1957, with time off in between to hold a Fulbright Fellowship at Cornell University. In 1957, Blood came on faculty at OVC as a professor of large animal medicine, a position he held until 1962, when he returned to Australia to become founding dean of the School of Veterinary Sciences at the University of Melbourne. He retired in 1985.

Blood is co-author of *Veterinary Medicine*, a textbook on the diseases of cattle, sheep, pigs and horses. Now in its sixth edition, the book has been translated into Italian, French, Spanish, Portuguese and Japanese. A second textbook, *Herd Health*, and a third, *Veterinary Law: Ethics, Etiquette and Convention*, were both published in 1985.

In 1981, Blood was named an honorary associate of the Royal College of Veterinary Surgeons and received the Schofield Medal from OVC, an honorary LLD from the University of Saskatchewan and the Order of the British Empire. He has had a distinguished career as a teacher of farm animal medicine, particularly of dairy cattle, and as a clinician investigating the physiological basis of disease.

Tickets are required to attend the special convocation. For more information, call Ext. 4401. O

The animal welfare bête noir in veterinary medicine

Dr. Frank Loew, dean of veterinary medicine at Tufts University, Massachusetts, will present the 1987 Schofield Memorial Lecture at OVC Sept. 25. Loew's topic is "The Animal Welfare Bête Noir in Veterinary Medicine."

The lecture will be given in War Memorial Hall, following a special anniversary convocation at 3 p.m.

On the subject of animal welfare, Loew notes that the veterinary profession has "alternately coveted and spurned becoming significantly involved in issues related to animals, such as animals in research, intensive livestock production, animals in competitive events, and hunting and trapping." What, he asks, accounts for the profession's reluctance to study and then act on such issues? And what is at stake for animal agriculture, pet-keeping and all other cultural interactions between animals and people?

Author of more than 100 scientific and professional articles, books and reviews, Loew received Canada's Governor-General's Medal in 1977. He is now serving a third term as chair of the Institute of Laboratory Animal Resources.

The annual Schofield Memorial Lecture was established in 1970 by OVC to commemorate Francis William Schofield, a distinguished scholar and teacher. His research provided the basis for modern anticoagulant therapy in humans and set the stage for antibiotic treatment years later.

Admission to the lecture is free, but tickets must be obtained in advance from the OVC dean's office, Ext. 4401. O

Musical tribute for 125th

"Vets," a musical tribute to the 125-year history of OVC, will be presented Sept. 25 at 8:30 p.m. in War Memorial Hall. The driving force behind the production is writer and singer David Archibald.

Archibald created the multi-media theatrical production of "Wind on the Prairie," the story of Louis Riel, and "Northern River," based on the life of landscape artist Tom Thompson. Both productions toured the country to wide acclaim.

Text, music and lyrics are by Archibald, who also directs the production. Cast and crew are OVC's own — undergraduate and graduate students, faculty and staff.

Archibald describes the revue as a "varied menu of original musical treats that picks styles from different historical periods." Music from "Vets" includes an animal welfare song — "Animals are People, Too" — the nostalgic "Those Golden Days at School" and a Gilbert and Sullivan-type number called "Rinderpest," about a deadly cattle plague.

Tickets at $8 (general) and $3.50 (students and seniors) can be purchased through the dean's office of OVC, Ext. 4401. O

Vets return to school for special OVC conference

OVC is mounting one of its most ambitious continuing education events ever, Sept. 24 to 26. Coinciding with Homecoming Weekend, the anniversary conference — in celebration of OVC's 125th anniversary this year — will offer 38 speakers from Canada, the United Kingdom and the United States.

The conference, which organizers hope will become an annual event, has been organized with the co-operation of Ontario's veterinary associations and academies. It is expected to draw up to 450 veterinarians for scientific and lifestyle sessions that will include "hands-on" laboratory workshops in ultrasound, equine ophthalmology and computer applications.

In response to a growing demand within the veterinary profession for meaningful continuing education programs, OVC, the Ontario Ministry of Agriculture and Food and the Society of Ontario Veterinarians have commissioned a study into the needs of Canadian veterinarians in this area. The results of that study are due for release soon. O

Second appeal out for strong on-campus support

Next week faculty and staff will receive a letter from a campaign volunteer outlining the successes *The Campaign* has achieved to date and asking them to help push the on-campus drive closer to its $1.5-million goal.

Faculty will be addressed by Prof. Peter Egelstaff, Physics; professional staff by Ron Collins, director of the University Centre; support staff by Sheila Trainer, Department of Zoology; and exempt and supervisory staff by Don Harris, Grounds.

As chairs of the various faculty/staff campaign committees, they and their volunteers will be reminding colleagues about the importance of strong on-campus support, says Don Livingston, director of development, Department of Alumni Affairs and Development. "We need to be seen by other potential donors to be helping ourselves in a significant way," he says. In addition, *The Campaign* needs cash/pledges in hand to fund scholarships, to begin construction of buildings and to initiate other projects.

Faculty and staff have contributed more than $400,000 to date. Some donors have taken advantage of the payroll deduction plan and many of their gifts have been designated to benefit a particular project such as the day-care centre, the Athletics Centre, professional development funds or scholarships. These donations have initiated a momentum that draws off-campus support, says Livingston.

Others have contributed indirectly by purchasing a ticket on the red Corvette that will be given away during Homecoming Weekend. Tickets will be available at the University Centre box office and from any member of the Department of Alumni Affairs and Development until kick-off time at the Homecoming football game Sept. 26.

The campus community stands to benefit the most from *The Campaign*, says Livingston, who encourages faculty and staff to repeat their contribution or to fill out their first pledge form.

THE CAMPAIGN

$50 million . . . and counting

The Campaign has achieved more than 80 per cent of its $60-million goal. "In one short year, the University's capital campaign has made impressive strides," says Marjorie Millar, director of the Department of Alumni Affairs and Development.

At its launching Sept. 11, 1986, *The Campaign* counted $22 million in cash and signed pledges. Almost two-thirds of that money was provincial and federal grants for upgrading OVC.

By Sept. 11, 1987, *The Campaign* had surpassed $50 million. Some $20 million of that is from private donors — individuals, foundations and companies, says Millar.

Here are some of the highlights of *The Campaign* over the past year:

- At the kick-off ceremony, campaign co-chair John Bassett made headlines with his praise of Guelph's academic and research commitments.
- Nestlé Enterprises later echoed those sentiments with a $500,000 gift to help fund an addition to the FACS building and to support research and teaching programs.
- The University's first-ever approach to the Montreal-based McConnell Foundation netted an unrestricted gift of $500,000.
- The Ministry of Colleges and Universities' $16-million commitment to the Environmental Biology/Horticulture complex put *The Campaign's* government objective over the top.
- Retired farmer George Morris added a sparkle to *The Campaign* when he donated a 1985 red Corvette to be given away during Homecoming Weekend.
- A pledge from the City of Guelph for $1 million over five years brought plans for expanding the Athletics Centre closer to reality.
- The student telephone campaign has drawn unprecedented support from alumni.
- The Max Bell Foundation increased its pre-campaign support of the Gerontology Research Centre, the Wild Bird Clinic and the Equine Research Centre with a $500,000 gift designated for OVC redevelopment. O

Proposed reforms complex; Livingston offers explanation

Universities will be among the Canadian charitable groups that may see donations decline as a result of tax reforms proposed by the federal government, says Don Livingston, director of development, Department of Alumni Affairs and Development.

New legislation, proposed to take effect Jan. 1, 1988, will make it more costly for most individuals to donate, he says.

Under the present tax laws, charitable contributions are deductible from income at the taxpayer's marginal rate, up to a maximum of 20 per cent of income in a given year. If you are in a 40-per-cent tax bracket, that means you can reduce your income tax by 40 cents for each dollar of your charitable donation. Your $100 donation "costs" you only $60.

The federal government's June 18 white paper, however, proposes that a tax credit be applied against taxes payable. Ontarians would pay $74 for a $100 donation, regardless of their marginal tax rate. The portion of the donation in excess of $250 would receive a 44-per-cent tax credit. For many taxpayers, the tax relief would be less than the deduction they now receive for the same gift, says Livingston.

The federal government has continually encouraged charitable groups to build a base of private support rather than relying on government grants, but to the extent that a donor's decision to give is based on tax considerations, the proposed changes to tax law will reduce the individual taxpayer's incentive to give to charity, he says. Some donors have increased their 1987 givings or have moved their planned contribution ahead several months so they will come under the current regulations.

Individuals will generally be more affected than corporations, but the proposed tax legislation is so complex that each taxpayer's situation must be appraised separately, says Livingston. He welcomes calls from members of the University community who would like a more detailed explanation of the changes. Contact him at Ext. 6547. O

Dialogue

Research crucial to world-class education

The University of Guelph must continue to offer students interaction with an active and probing research community on campus.

This is no substitute for University instructors who are on the leading edge of research, achieving solutions and sharing them with students. It is essential that the University have a full complement of research achievers whose teachings include information and knowledge gleaned through their own studies, for which they have real personal investment and pride.

The analytical thought process necessary for success in both innovative, basic and applied research accomplishments is also the process necessary for achievement in all walks of life and it is transmitted in the classroom. Research therefore reflects in the quality and vitality of instruction that students receive and in the value of their university experience to them, to society and to employers.

Students can and do serve as an invaluable sounding board for research output. If students are excited by the research being done, that is a real measure of research relevance. At the same time, graduate and undergraduate students, who share the research questions, accomplishments and disappointments with our faculty, play a vital role in the questioning and probing process. This helps investigators to challenge their hypotheses and pronouncements and assures novelty in the work done.

The University is therefore exploring all new opportunities for research resources that will allow our researchers to build on the University's strengths and will further enable our faculty to become involved in new areas. The result will be a broader knowledge base centred around a wider portfolio of research projects; this, in turn, will further our reputation as a university.

The thrust for new opportunities for research resources and support is consistent with statements in the draft strategic plan for the University, which is now being discussed by the campus community.

The pursuit of research resources is essential. Researchers must have a range of resources in support of their investigation. First, the institution must strive to be certain that researchers have time available and have appropriate space to work in. They require assistance to develop collaborations and to use unique facilities and libraries elsewhere. Also, they need a strong research infrastructure at the University, including, for example, an adequate library and modern computing facilities. And finally, of course, they need funds to pay for the direct costs of their work.

If elements required for research success are missing from the University, the effects detract from the quality of the programs offered to students.

Dr. Larry Milligan,
Dean of Research

At Guelph introduces new sections

The new and expanded format of *At Guelph* is an opportunity to introduce some new sections.

This week, for the first time, read "Dialogue" — a place for editorial articles submitted by any member of the University community. "Letters to the Editor" are also invited.

"Graduate News" will contain some new information — the name, department and thesis title of every graduate student who successfully completes an MA or PhD program. The list will be submitted by the Faculty of Graduate Studies on a regular basis. This section is in celebration of a singular achievement, and also recognizes the University's commitment to research and teaching at the graduate level.

News of faculty, staff and student activities are still welcome. These will be published in "Our People."

A "Speeches" column will also be introduced. If you have given a speech recently — or read one that is relevant to the University — share it through *At Guelph*.

All submissions should be typed, double spaced, and signed by the correspondent. Each will be verified by a phone call. The executive editor reserves the right to select, edit and position all copy.

If you have some ideas on how to make *At Guelph* a more informed — and involved — University community publication, please give us a call at Public Relations and Information, Level 4, University Centre, Ext. 3864. O

At Guelph

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Views and opinions contained herein do not necessarily reflect official University policy. Letters to the editor, opinions, news items and other submissions are welcome. Deadline is seven days before date of issue unless otherwise specified. Stories may be reprinted with acknowledgement of source.

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Open forum Sept. 22 on strategic plan

At its first meeting of the academic year Sept. 15, Senate was to discuss the Committee on University Planning's report on the strategic plan for the University.

To give members of the University community an opportunity to hear more about the report and to discuss its contents, an open forum will be held Sept. 22 at 7 p.m. in Room 113, MacNaughton building.

At that time, copies of CUP's proposed resolutions about the report, which will be debated by Senate Sept. 29, will be available. Extra copies of the plan can be obtained from the University Secretariat at Ext. 2114. O

Alcohol Awareness Week

Alcohol Awareness Week, an annual event aimed at increasing student awareness of the effects of alcohol on the body and the effects of drinking and driving, is Sept. 28 to Oct. 1. It is sponsored by the Wellness Promotion Task Group of Student Services.

A variety of booths and displays will be set up in the University Centre courtyard during the week, says Shelley O'Brien, the program's co-ordinator. These will include an alternative booth, offering pop and juice and tips on organizing parties with and without alcohol, a breathalyser test Sept. 30 and Oct. 1 from 9 p.m. to 1 a.m., videos and a People's Booth, soliciting comments from students about the week and their experiences with alcohol. Many of the people staffing the booths will be campus bar staff and students, O'Brien says.

The effects of drinking and driving will be illustrated with a display of a wrecked car in Branion Plaza. And a licensed dance featuring Chalk Circle will be held Oct. 1 at 8 p.m. in Peter Clark Hall.

"Most Guelph students are already responsible drinkers," says Norm DeMers, chair of the task group, "and we want to reinforce that. We also want to give the message that if you choose not to drink at all, that's socially acceptable."

People of university age are in a vulnerable position for developing poor drinking habits, says DeMers. Leaving home for the first time and facing peer pressure in a university setting leads some students to drink more than they're accustomed to.

"Alcohol is very sneaky — it creeps up on you," he says. "And people have ways of denying that it's creeping up and taking over their life. Through Alcohol Awareness Week, we hope that those students who are having problems with alcohol will begin to question their drinking."

Next year, the task group plans to survey 2,000 students on their drinking habits to get a clearer idea of how alcohol is being used or abused at the University. O

Job opportunities

As of *At Guelph* deadline Sept. 11, 1987, the following opportunities were available:

Assistant Baker, Food Services, temporary full-time, from September to April 5. Job rate: $11.28 per hour; start rate: $9.28 per hour.

Buyer, Purchasing Department. Salary range: $467.61 minimum; $541.63 job rate (level 5); $672.60 maximum.

Animal Health Technician, (Nursing Division) Veterinary Teaching Hospital. Salary range: $353.20 minimum; $408.07 job rate (level 5); $506.70 maximum.

Department Requisitions Clerk, Veterinary Teaching Hospital. Salary range: $303.42 minimum; $350.66 job rate (level 5); $436.76 maximum.

Health Records Clerk, Veterinary Teaching Hospital. Salary range: $303.42 minimum; $350.66 job rate (level 5); $436.76 maximum.

The following positions were available to on-campus employees only:

Porter, Residences (South Area). Job rate: $10.52 per hour; probation rate: $.20 per hour lower than job rate.

Library Assistant I, Track 1, Humanities and Social Science, Library. Salary range: $276.64 minimum; $320.83 job rate (level 5); $385.08 maximum.

Secretary II, Horticultural Science. Salary range: $303.42 minimum; $350.66 job rate (level 5); $436.76 maximum.

Secretary I, Population Medicine, two positions. Salary range: $276.64 minimum; $320.83 job rate (level 5); $385.08 maximum.

Clerk III, Communications Services. Salary range: $363.19 minimum; $418.51 job rate (level 5); $517.87 maximum.

Laboratory Technician, Biomedical Sciences. Salary range: $353.20 minimum; $408.07 job rate (level 5); $506.70 maximum.

Secretary II, Department of Languages and Literatures, 10-month continuing full-time limited term appointment. Salary range: $303.42 minimum; $350.66 job rate (level 5); $436.76 maximum.

Research Technician, Biomedical Sciences. Salary range: $303.42 minimum; $350.66 job rate (level 5); $436.76 maximum.

Earth may move, but football players keep on practising. Heavy equipment and a construction crew are making a gravel extension to the P15 parking lot across from Alumni House on Arboretum Road. When completed, by Sept. 18 if the good weather holds, it will provide another 175 parking spaces for orange and black permit holders. P24 by the Textiles building has also been expanded. Some 133 people have applied for the premium parking permit for departmental and personal use, says Lucie Turner, manager of Parking Administration, and a few more are expected once everyone is back on campus. Photo by PRI

A family affair

In less than 16 months, the University of Guelph turns 25. A full year of celebrations across campus is being planned to ensure that the University's silver anniversary gets the recognition it deserves.

A 25th anniversary planning committee, appointed by President Burt Matthews and chaired by retired CPS dean Earl MacNaughton, wants the celebration to be a "family affair," with everyone in the University community involved. That community spirit will help kick off the festivities Jan. 12, 1989, at a cake-cutting opening reception in the University Centre courtyard.

Other major social events planned during the year include a banquet to honor past and present members of Board of Governors, presidents and other founders of the University, and a closing banquet for members of the University community.

Of course, the anniversary is more than just a party. The theme of the celebration is "Achievement and Challenge," and many of the events planned throughout the year will be aimed at making people on campus and in the wider community aware of what the University of Guelph and its colleges have accomplished over the past quarter century and the challenges that face them in the future, says MacNaughton.

University-wide events scheduled throughout 1989 include a world conference in October focusing on technology and social values, a noon-hour science lecture series for university and secondary school students, and a graduate achievers series aimed at making current students aware of the successes and achievements of distinguished graduates.

The planning committee also wants college-sponsored events to form an important part of the anniversary program, says MacNaughton. Colleges are being urged to organize events such as seminars and lectures that will highlight their achievements over the past 25 years. These college-sponsored events, as well as events planned by the Faculty of Graduate Studies, the Office for Educational Practice and other units on campus, will run throughout the winter and fall semesters.

An amount of up to $4,000 per college is available to help colleges fund suitable events. These funds will be awarded on the basis of matching one-to-one funds from the colleges. Any funds not required by the colleges will be made available to other units of the University, MacNaughton says. Colleges and other units are asked to submit detailed proposals to the anniversary committee through Trish Walker, Office of the Secretariat, by Nov. 1, 1987.

Colleges that already have annual special lectures are being asked to incorporate the theme of the anniversary into their plans for 1989. "Wherever possible, we want to make use of events that are already ongoing," says MacNaughton. Colleges that don't have an annual lecture series will be encouraged to establish one in 1989.

The organizers of other annual events, such as College Royal, Alumni Weekend, the Community Barbecue and Homecoming are also being asked to adopt the anniversary theme. The Department of Athletics will also organize special anniversary events.

Musical celebrations of the anniversary will be planned by the Music Department, the University Centre and the Guelph Spring Festival, says MacNaughton. The Macdonald Stewart Art Centre plans two special art shows — an exhibition of important art acquisitions funded by alumni donations and an exhibition of artworks by a number of the University's fine art graduates.

Subcommittees of the anniversary planning committee are also involved in developing plans for displays and publications to highlight the University and its history. Planned publications include a pictorial essay book of the University to be sponsored by the Department of Alumni Affairs and Development, a book reviewing the period leading up to the founding of the University by College of Arts Dean David Murray and a brief historical review of the University's first 25 years.

The planning committee has also invited the faculty association, the various staff associations and the student associations to plan suitable events.

Twenty-five people who made significant contributions to the University during the early years of its development will be recognized with anniversary medals. A committee will be appointed by the president to establish the terms of the awards and to recommend candidates.

MacNaughton says the planning committee is still welcoming ideas for the anniversary celebration. Contact MacNaughton or any other member of the committee directly or through the Secretariat's Office.

Other members of the committee are: Profs. Ted Fletcher, HAFA; Tom Hulland, Pathology; Pat Kyba, Political Studies; Brian Allen, Mathematics and Statistics; and Gordon Surgeoner, Environmental Biology; Gary Nadalin, Conferences; Nancy Sadek, Library; Rosemary Clark, Alumni Affairs and Development; Gerry Quinn, Public Relations and Information; Jim Ryan, president of the CSA; retired faculty and staff George Barker, Murdo MacKinnon, Tom Lane, John Hurst, Bill Mitchell and Doug Waterston; and alumni Peter Anderson and Bill Gregg. O

Appointments

Richard Moccia of Guelph will join the Department of Animal and Poultry Science as assistant professor Oct. 19.

Dr. Annette Nassuth was appointed assistant professor in the Department of Botany Aug. 7. O

First winners of President's Scholarships gather

The recipients of the University's most prestigious undergraduate awards — the President's Scholarships — were honored at a presentation ceremony Sept. 10. President Burt Matthews presented the first 10 winners with citations and the first instalments of their $16,000 awards, which are among the largest undergraduate scholarships in Canada.

The first 10 recipients come from British Columbia, Ontario and New Brunswick. Parents of the Ontario winners and four high school principals attended the presentation, which was followed by a lunch in the President's House.

The scholarships will be awarded annually to 10 outstanding students who have displayed leadership abilities in their schools and communities. The candidates are nominated by their high school principals with supporting letters from community members. The winners are chosen by a scholarship committee that includes faculty, the provost, high school principals and the assistant registrar, Awards.

The first committee was chaired by Chemistry and Biochemistry professor Hamish Rattray, who is also chair of the Senate awards committee that defined the terms of the scholarship. Members were: assistant registrar, Awards, Garry Davidson, Consumer Studies professor Bill Frisbee, registrar Arnold Holmes, Psychology professor Jim Mottin; former provost Paul Gilmor, Agricultural Economics and Business professor Sandy Warley, and two high school principals — David Wright of Mitchell District High School and Mike Whyte of the Woodlands School in Mississauga.

A subcommittee of the Senate awards committee will continue to interact with the students during the tenure of their awards.

The first winners of the President's Scholarships with President Burt Matthews, back row, from left: Harry Stoddart, Piers Nash, Colin Godwin, Sean Morrissy, Mark Rosati and David Dec. Front row: Jenny Bowe, Sylvia Hall, Nancy Charlton and Alison Moore.

Photo by John Maiorossy, Photographic Services

A brief resume of the 1987 recipients follows:

Jenny Bowe, 19, of Peterborough, is interested in theatre, writing, art and landscape architecture. She was president of Peterborough CVS student council and was elected head girl of her school. She chose Guelph because here she can pursue any one of her three major interests — drama, landscape architecture and management studies.

Nancy Charlton, 18, was raised on a farm near Brantford and plans to study veterinary medicine at Guelph. She was president of Pauline Johnson CVS student council, played in five school bands and was active in 4-H and the local fall fair. She was Brant County dairy princess for 1986/87.

David Dec, 19, of Mississauga, was a member of Mayor Hazel McCallion's youth advisory council, served as vice-president of Glenforest Secondary School's student activity council and played an active role in sports and groups such as Students Against Impaired Driving and the Mississauga Information Service for Youth. David is enrolled in a bachelor of science program and hopes to become a doctor.

Colin Godwin, 18, of Summerland, B.C., played almost every sport Summerland Secondary School had to offer (the only one he didn't play was basketball), while maintaining his interests in music, church activities and video photography. He will study arts with a view to working with people, and doesn't discount the possibility of going into politics.

Sylvia Hall, 19, of Cornwall, was named Citizen of the Year at St. Lawrence High School in 1986, and in 1987 served as editor of the school paper and captain of the volleyball team. She participated in school plays, science fairs and clubs, wrote a column for the Cornwall newspaper and worked for a local veterinarian. She is undecided about her career choice, but plans to study science, perhaps as a background for veterinary medicine, human medicine or biochemistry.

Alison Moore, 18, of Kingston, plans to be a veterinarian and has worked for several years at a Kingston animal hospital. An accomplished athlete and musician, she has played the trumpet in several bands, including Loyalist Collegiate's, and is a member of the All Canadian Hall of Fame Band Honors.

Sean Morrissy, 17, of Fredericton, N.B., is interested in drama, writing, football and the sciences. His acting roles have ranged from Oberon in "Midsummer Night's Dream" to the lead in "Camelot." Sean was a student at Fredericton High School and plans to study science at Guelph. He is particularly interested in environmental issues.

Piers Nash, 18, completed most of his high school years at St. Charles College in Sudbury, but did his Grade 13 at Bishop Macdonell High School in Guelph when his family moved to southern Ontario. His interest in science has taken Piers to science fairs across the country, as well as to the Stockholm International Youth Science Symposium and the 1985 Nobel Prize ceremonies. Not surprisingly, Piers plans to study science — physics — at Guelph.

Mark Rosati, 19, of London, will study biology at Guelph. He has already worked for three summers as a research assistant for a University of Western Ontario zoologist. He played clarinet and saxophone at Catholic Central and won his parish's award for combined social, athletic and academic involvement.

Harry Stoddart, 18, of Bradford, was involved in curling, drama, chess and music at Bradford District High school. He was also active in church and 4-H activities. At the same time, he spent 20 hours a week working on his parent's hog operation and this year added a part-time job at a local dairy farm. Harry decided long ago to come to Guelph to study agriculture. He is enrolled in crop science. O

East German stage director visiting College of Arts

Harry Lane, left, and Heinz-Uwe Haus.

Photo by Herb Ratuscher, Photographic Services

A noted German stage director and scholar, Dr. Heinz-Uwe Haus of East Berlin, is a Winegard Visiting Professor in the College of Arts.

Haus, who has taught at the Institute for Stage Direction in Berlin since 1975, was educated at the Babelsberg Film Academy, Berlin's Humboldt University and the Deutsches Theatre, Berlin. He has directed productions at leading German theatres, as well as in Cyprus, Greece, England and the United States. In the United States, he has taught at Harvard, New York, Cornell, Stanford, Tufts and Wisconsin universities.

Haus's stay at Guelph this month and next is his first residency in Canada, says Prof. Harry Lane, acting chair, Department of Drama. Lane also believes this is the first time an East German has directed at a Canadian university.

Haus has written on many aspects of drama and theatre, especially Brecht and Shakespeare, and his book on theatre in Cyprus is expected to be published in the United States in 1988. He is an honorary member of the American Brecht Society and the Cyprus International Theatre Institute, and a director of the International Theatre Workshop for Ancient Drama in Oiniades, Greece.

While here, Haus will be directing students in Shakespeare's *Richard III*, which will be performed at the Inner Stage Oct. 26 to 31. He will also visit classes in a number of departments, give lectures and be available for consultation with students and faculty. He can be reached at Ext. 3242 or through the Drama Department, Ext. 3147. O

Aging bone loss study suggested by nutritionist

Nutritional Sciences professor Harold Draper is skeptical about the "calcium craze" among middle-aged women in North America. "The assumption that massive doses of calcium will avoid osteoporosis might well disguise the need for more research into the real reasons behind this crippling disease," he says.

The claim that a high intake of calcium following menopause will prevent osteoporosis is based mainly on the results of a single study, he says, and several more recent studies have failed to confirm this claim.

Many Canadian women now take a calcium supplement of 1,000 to 2,000 mg a day. Some $20 million is spent annually on calcium supplements.

Inherited bone mass is a major factor in the development of osteoporosis, says Draper. He believes it is more reasonable to find a way to identify those women most likely to develop osteoporosis following menopause and to institute preventive measures for them, rather than to encourage massive calcium supplementation for all women.

Women prone to the disease should be encouraged to meet the recommended calcium intake of 800 mg per day from food sources, and to follow a program of regular exercise. In some cases, a physician may decide to administer estrogen, which is the only proven way to prevent aging bone loss.

"The question whether calcium is of any benefit in preventing osteoporosis is best approached using an intervention strategy, in which the possible effects of dietary variables that may increase the calcium requirement, such as excess protein or phosphorus or inadequate vitamin D, are overriden by a large calcium supplement of at least 1,000 mg per day," says Draper.

He suggests a five-year study of a large sample of post-menopausal women to measure intake of all relevant nutrients, physical activity, sunlight exposure and inherited bone mass as they relate to the rate of aging bone loss. O

Briefly

The Bursar Office cashier wickets will be open for business from 10 a.m. to 3 p.m. only, as of Oct. 5. Only during the first two weeks of each semester will the wickets be open the full business day from 8:30 a.m. to 4:30 p.m. For departments with large revenue deposits, special arrangements will be made for a specific time of transfer and receipting of the deposits. For more information, call Peter Landoni, Ext. 3311.

The Humanities Association's program for 1987/88 will include discussions of "Victorian Architecture in Guelph," the "Films of Norman McLaren," "Psychology and the Law" and the "Social Impact of Computers." For details of the program and application forms, call Joan Johnston, 824-4204.

September is Big Brothers month. For more information about the organization, call 824-5154.

The Guelph Committee Against Imperialist War Preparations is holding a provincial conference on "Questions of Peace and War" Sept. 27 to Oct. 3 on campus. The aim of the conference is advancement of the peace movement. For more information, contact the Guelph Committee, Room 216, University Centre, Ext. 6750.

The Guelph Spring Festival has named Marcia Shortreed as its new administrator. Shortreed served as director of marketing and publicity for the festival for 1987. Leila Lustig, publicist for the 1987 festival, has been appointed director of marketing and publicity.

The Fifth in a Series of Biotechnology Day workshops will be held Oct. 29 on campus. Entitled "Promises and Realities in Biotechnology," the workshop will include panel discussions and invited speakers from industry and government. The workshops are designed to bring together senior researchers, practitioners and policy makers involved in industry, government and academia for discussion and evaluation of current developments and future directions in biotechnology, especially in Canada. Cost is $10 for members of Guelph-Waterloo Biotech and $25 for non-members. For more information, call Dr. Brian Cox, executive manager of GWB, at Ext. 8761.

The Cardio-Vascular Club, conducted by retired Human Biology professor John Powell, meets from 12:15 to 12:45 p.m., Monday to Friday, on the Athletics Centre track. (Rain location is the wrestling room of the Athletics Centre.) Anyone wishing to join the club, which is now in its 23rd year, must present a current medical certificate.

Faithfully Curious, a weekly class in Christian theology is held Tuesdays at 5 p.m. in Room 335, University Centre. This year's topic is "Getting to Know God and His Promises."

During OVC Convocation Sept. 25 and fall convocation Oct. 2, parking lots P23/24 and P44 will be reserved for visitors. Alternate parking for regular users can be found in lots P7, P19 (front section), P17, P48 and P14/15. People with premium parking permits for P24 will be allowed to park in the designated premium parking zone.

The College of Biological Science's Thursday seminar series focusing on what's new in biological research continues Sept. 24 at 1 p.m. in Room 102 of the J.D. MacLachlan building with the topic "Migration and Human Adaption." Guest speaker is Dr. Michael Little, professor of anthropology at the State University of New York at Binghamton.

Little has a PhD in biological anthropology from Pennsylvania State and has published extensively on the subject of adaptation to cold. In his research, he emphasizes the interaction of many factors influencing human survival in the challenging habitat — a perspective that is clear in the textbooks he has written, including *Ecology, Energetics and Human Variability*, with G.E.B. Morren, Jr.

Little is now conducting research on heat — he is a member of a multi-disciplinary team studying the successful adaptation of the Turkana, pastoral people of Kenya-Uganda. One of his tasks is to examine the physique and health of people whose diet may consist of 80-per-cent animal blood for parts of each year.

Volunteers are Needed for the fourth annual Guelph International Film Festival, which runs Oct. 22 to 25. For details, call Julia Gualtiera or Mary-Ann Cheesequay at 836-8885.

The Opening Concert in the Department of Music's Thursday noon-hour concert series, which celebrates its 20th anniversary this year, features Canadian baritone Kevin McMillan and pianist John Greer Sept. 17.

McMillan was the winner of the 1987 Edward Johnson voice competition and was featured in Musical America's "Young Artists ... Talent to Watch" in 1985. He has a master of music from the Juilliard School, was awarded a scholarship to study at the Britten-Pears School for Advanced Musical Studies and has performed throughout North America.

The program, which begins at 12:10 p.m. in Music Room 107, MacKinnon building, features "Dichterliebe, op. 48" by Schumann, "Storchenbotschaft," "Nimmersatte Liebe," "Heb' auf dein blondes Haupt" and "Abachied" by Hugo Wolf and "Don Quichotte a Dulcinee" by Ravel. The 1987/88 concert series is dedicated to its founders, Ralph and Edith Kidd.

The Relaxation and Biofeedback Clinic in the School of Human Biology is offering a class for healthy people who would like to increase their quality of life and work efficiency. In 10 group sessions, participants will learn relaxation skills for greater self-regulation and prevention of stress. Classes begin Sept. 29 and run Tuesdays from 12:10 to 1 p.m. and Thursdays from 4:15 to 5 p.m. There will be a follow-up session Nov. 26. Cost of the course is $80, which includes an individual relaxation profile. Registration is Sept. 22 at noon in Room 209, Human Biology; the profile should be completed before Sept. 25. For more information or to pre-register, call Ext. 2662 or leave a message at Ext. 6713.

Guelphex '87, the annual exhibition of the Guelph Stamp Club, is Oct. 17 from 10 a.m. to 5 p.m. at St. James Junior High School, 57 Victoria Rd. N. Everyone is welcome; parking and admission are free.

Jean Grimshaw, a senior lecturer in philosophy at Bristol Polytechnic, England, and author of *Philosophy and Feminist Thinking*, will give two open lectures next week. On Sept. 22 at 2 p.m. in Room 904, MacKinnon building, she will discuss "Philosophy and Gender." On Sept. 24 at 3 p.m. in Room 317, MacKinnon building, her topic is "Autonomy and Identity in Feminist Thinking."

Dr. Martin Richards, head of the child care and development group at the University of Cambridge, England, and Winegard Visiting Professor in FACS, will present a colloquium on the "Social-Psychological Issues in Fetal Screening" Sept. 24 at 3:30 p.m. in Room 106, FACS building.

American Artist Alan Gussow, a pioneer in the art and ecology movement, will be visiting the Department of Landscape Architecture Sept. 22 and 23. On Sept 22 at 5 p.m., he will give a public lecture on "The Function of Art in a Nuclear Age" in Room 204, Landscape Architecture building.

A Reunion of All Former University of Guelph drama students is planned for this fall. For more information, call Ext. 3147.

The Office for Educational Practice is offering a series of instructional development workshops, seminars and discussions throughout the fall to help faculty members develop their teaching skills. On Sept. 18 at 10 a.m., OEP director Chris Nash will conduct a workshop on distance education concepts and processes. On Sept. 23 at 2 p.m., a discussion of "Knowing Your Students" will be led by Prof. Joe Cunsolo, Mathematics and Statistics, Mei-fei Elrick, OEP, and Shelley Birnie-Lefcovitch, Counselling and Student Resource Centre. On Oct. 1 at 10 a.m., Elrick and Prof. Les Thomas, Land Resource Science, will discuss "Challenging and Supporting Students' Intellectual Development." All three sessions are in Room 132, MacKinnon building. For more information, call Elrick at Ext. 3522.

OEP is also sponsoring a discussion series on "The Learning Objectives: What Do They Mean for My Teaching?" Tuesdays at noon in Room 132, MacKinnon building. Topics are "Esthetic Maturity" Sept. 22, "Numeracy" Sept. 29, "Global Understanding" Oct. 6 and "Depth and Breadth of Understanding" Oct. 13.

The Thursday Noon-Hour Concert Sept. 24 will feature the Monticello Trio, trio-in-residence at the University of Virginia. The group consists of Mark Rush, violin, Mathias Wexler, piano, and Tannis Gibson, piano.

Rush is a graduate of Yale University, has soloed with orchestras throughout the southwest United States and was a 1983 Fulbright scholar. Wexler also studied at Yale and has appeared throughout the United States and Canada as a member of both the Norquay Quartet and the Ariel Trio. Gibson has a master of music from the Juilliard School and has performed as a soloist and chamber musician in Canada, the United States and Europe.

Program I at 12:10 p.m. in Music Room 107 of the MacKinnon building will consist of "Trio in C minor, op. 1, no. 3" by Beethoven and "Trio (1987)" by Martin Bresnick. Program II at 1:10 p.m. will feature "Trio in G minor, op. 15" by Bedrich Smetena. Admission is free.

The University of Guelph Choir rehearses Wednesdays from 7 to 9:30 p.m. in Music Room 107, MacKinnon building, under the direction of Gerald Neufeld. Major works for the semester will include Carl Orff's "Carmina Burana" and Schubert's "Part Song." The University of Guelph Jazz Band rehearses Thursdays from 7 to 9:30 p.m. in the Music Room under the direction of Howard Spring. Anyone interested in joining the choir, the jazz band or any other musical performing group on campus should call the Department of Music at Ext. 3127.

A Fully Furnished, self-contained apartment is available for rent at Guelph London House in London, England, from Oct. 1 to Dec. 31, 1987. The apartment has a full kitchen, private bathroom, one double and two single beds with linens supplied. Rent for the three-month period is $2,100, including utilities. For more information, call property manager John Wills, Ext. 2734.

The Blyth Festival Production of *Another Season's Promise* by festival co-founders Anne Chislett and Keith Roulston is on stage at War Memorial Hall Oct. 7 at 8 p.m. It is a poignant drama about a close-knit, hard-working family who have been farming their land for more than a century. Tickets at $11.50, $9.50 and $8.50 are available at the University Centre box office.

The Wellness Promotion Task Group is sponsoring a smoking cessation clinic for students, beginning Oct. 5. The clinic consists of seven sessions from 5 to 7 p.m. over a period of four weeks. Cost is $35. Register at the Connection Desk, Level 3, University Centre, or call 836-4444. A free information session will be held Sept. 21 at 6 p.m. in Room 305, MacKinnon building.

The University Catholic Community sponsors a number of worship and fellowship programs throughout the semester. Mass is held in the chapel on Level 5 of the University Centre Mondays at 5:10 p.m., Tuesdays at 12:10 p.m. and Fridays at 8:10 a.m., and in Peter Clark Hall Sundays at 10:10 a.m. "Explorations in Meditative Prayer" is each Thursday at 5:10 p.m. in the Chapel. "Inquiry into Catholicism," a study of the Catholic church and its teachings for Catholics and non-Catholics, is held Tuesdays at 4:10 p.m. in Room 335, UC. Everyone is welcome to attend "Meet and Eat," a lunchtime fellowship with special speakers Tuesdays at noon and a social evening Thursdays from 6 to 9 p.m., both in Room 335, UC. A Bible study group meets Tuesdays at 7 p.m. in Room 332, UC. The Catholic Community also sponsors a series on "The Spirituality of Relationships, Sexuality and Marriage" Thursdays at 4:10 p.m. in Room 335, UC. For more information or for counselling, contact Rev. Art Menu or Dawn Reynolds in Room 149, Johnston hall, Ext. 2391.

The HAFA Restaurant opens for business Sept. 30 and will be open Wednesday to Friday from 11:45 to 1 p.m. throughout the fall. Both buffet service and dining room service are available. For dining room reservations, call Ext. 8116.

Immanuel Fellowship meets Wednesdays from 5 to 7 p.m. at 5 Keats Cres., telephone 824-4524. Rides are available from the front of the University Centre, leaving at 5:10 p.m. Everyone is welcome.

The Development Education Program is sponsoring a series of workshops and seminars to provide skills for community and international development. The series begins Sept. 28 with a slide presentation and discussion of "Agricultural and Rural Development in Nigeria." It starts at 7 p.m. in Room 332, University Centre. On Oct. 3, Janey Southey will lead "The Green Revolution Game," a full-day exercise that introduces participants to the predicament of Asian farmers. The program, which runs from 9:30 a.m. to 4 p.m. in Room 311, HAFA building, is limited to 20 participants. Register at Ext. 3778. Cost for both events is $2.50 general, $1.50 for visa students.

The Alumni Tour Program for 1988 includes a 15-day Kenya safari in February, a Caribbean cruise in March and a tour of China in October. For more information, call Rosemary Clark, director of alumni affairs, Ext. 2122.

A Series of Saturday Seminars exploring the meaning and implications of a Christian world view to areas of study and vocation will be held Oct. 17 at Wycliffe College, Toronto, Nov. 14 at King's College, London, Jan. 16 at Conrad Grebel College, Waterloo, and Feb. 27 at McMaster Divinity School, Hamilton. Cost is $20 per day. Shared transportation is being arranged. A weekend retreat focusing on Christian lifestyles will be held Sept. 25 to 27 at Camp Shalom near Cambridge. Cost is $40. For more information, call Rev. Ed Den Haan, Ext. 2392.

Autumn Day in the Arboretum Sept. 27 features an appearance by the Guelph Concert Band. The band, sponsored by the City of Guelph, consists of 35 volunteer musicians who present about 20 public concerts each year. The Arboretum concert begins at 2:30 p.m. in the OAC Centennial Centre. Admission is free.

Graduate News

The following graduate students have successfully defended their final PhD oral examinations and will graduate at fall convocation:

Peter Gordon Braun, Environmental Biology, whose final thesis title is "Epidemiology and Management of Grey Mould Fruit Rot of Strawberries"; Juan Manuel Chirino-Trejo, Veterinary Microbiology and Immunology, "*Rhodococcus equi*: Studies on Immunity, Virulence and Vaccination in Horses"; Satish Deshpande, Physics (biophysics), "The Biochemical and Cytological Dynamics of Vertebrate Rod Photoreceptors"; Elenimo Billiat Khonga, Environmental Biology, "Survival and Inoculum Production by *Gibberella zeae* (Schwabe) Petch in Corn and Wheat Residues"; Regis Simard, Land Resource Science (soil science), "Effects of $CAC0_3$ and P Additions on Soil Chemical Characteristics and Corn Growth on a Podzolic Soil"; and Doris Elizabeth Yuen, Nutritional Sciences, "Factors Affecting Bone Mineralization of Neonatal Pigs Nourished by Total Parenteral Nutrition."

Four graduate students will have final oral examinations this month. Interested members of the University community are invited to attend. The students are:

Janis Randall, Family Studies, a candidate for the doctor of philosophy degree, Sept. 21 at 1 p.m. in Room 233, FACS building. The thesis is "Evaluation of Serum, Urine and Hair Chromium Levels as Indices of Chromium Exposure and the Relationship of these Indices to Serum Lipids." Randall's supervisor is Prof. Rosalind Gibson;

Shu-Fen Jiang, School of Engineering, a candidate for the doctor of philosophy degree, Sept. 21 at 2:15 p.m. in Room 427, University Centre. The thesis is "Finite Element Simulation of Heat Transfer in Farm Tower Silos." Jiang's supervisor is Prof. Jan Jofriet;

Suzanne Marie Filteau, Nutritional Sciences, a candidate for the doctor of philosophy degree, Sept. 22 at 8:30 a.m. in the Branion Room, Animal Science/Nutrition building. The thesis is "The Influence of Supplemental Triiodothyronine on the Immune System of Malnourished Mice." Her supervisor is Prof. William Woodward; and

Walter Ingwersen, Clinical Studies, a candidate for the doctor of veterinary science degree, Sept. 21 at 9 a.m., in Room 2635, OVC main building. The paper is "Cardiopulmonary Effects of Ketamine/Acepromazine and Halothane/Oxygen in the Healthy and Blood Loss Feline." His supervisor is Prof. Dr. Dana Allen. O

Our people

Prof. Keith Ronald, director of The Arboretum, has been elected vice-chair of the Huntsman Marine Science Centre at St. Andrews, N.B., after completing his third term as chair. Ronald was the first president and chair of the centre, which was founded in the early 1970s.

In the Department of Animal and Poultry Science, Prof. John Walton has returned from a sabbatic leave at Cornell University, and Prof. Roger Hacker has returned from a sabbatic leave at the Animal Research Institute in Victoria, Australia. O

Research report

Food scientists poised for irradiation research

The controversial practice of testing foods such as fruits and vegetables with ionizing energy — popularly called "food irradiation" — has been given the scientific mandate to proceed in Canada. But whether or not the will exists to make it a popular food preservation technique here is questionable, says Prof. Les Ferrier, Food Science.

In April, the Science Council of Canada released *Issues in Food Irradiation*, a 61-page discussion paper urging Health and Welfare Canada to "speedily complete the regulatory approval of food irradiation as a process rather than an additive." The council also issued a 17-page statement saying that Canada "has an excellent opportunity to market this technology in which it is already a world leader," following some 40 years of development by Atomic Energy of Canada Ltd.

"Now that the research community has had time to digest these publications, we generally believe they represent a positive attitude towards food irradiation," says Ferrier, who came to Guelph in 1986, after being involved in food irradiation for two years at the General Foods Technical Centre in Tarrytown, N.Y. "Now it's up to the federal government to educate the public and co-ordinate a plan that will bring irradiation into use," he says.

Irradiation either kills or sterilizes insects, parasites and microorganisms that spoil food or shorten its shelf life. Some environmentalists like the process because it precludes the use of questionable and banned pesticides and fumigants. Tropical exporters recognize the advantages of being able to market items like papayas and mangoes without having to disinfest them by methods that destroy their quality. Still other proponents tout food irradiation as an effective weapon against salmonella poisoning, which has doubled over the last decade in Canada.

Although foods do not become radioactive after irradiation treatment, some changes do occur in the texture and flavor. So Ferrier is applying for funding from the Ontario Ministry of Agriculture and Food to conduct tests with popular southwestern Ontario produce such as grapes, peaches, lettuce and broccoli. O

Food scientist Les Ferrier feeds grapes into a Gammacell 200.
Photo by Office of Research

BIOBONE: the chicken way to better cheddar cheese

Cheddar cheese manufacturers are scrambling for better processing techniques. Present cheese-making technology inefficiently uses a key and scarce ingredient — the enzyme rennin — for which demand exceeds supply by more than 500 per cent. But the first phase of a government and industry-sponsored research project at the University points to a most unlikely component for cheese processing — *chicken bones.*

Project leader Prof. Rick Yada, Department of Food Science, has completed six months of tests on "biobone," granular chicken bone derived from mechanically deboned chicken processed by Bioprotein Canada Inc. of Hamilton. The company is a division of Protein Foods Group Inc., an international poultry processor that, thanks to the increasing popularity of chicken, is struggling with a surplus of chicken bones.

It's not cost-effective to bury the bone or grind it into meal. So the company sent its director of research, Guelph food science graduate Dr. Chris Findlay, in search of a new use. His solution was to use the porous bone as an "inert supporting matrix" or medium to hold enzymes and bacteria used in food processing.

Manufacturers need such a medium for high-volume cheese production. Traditionally, they would simply pour some of the enzyme rennin into a vat of milk, and the ensuing chemical reaction would produce cheese. But the supply of rennin, an extract of the lining of a calf's fourth stomach, has dwindled because of the recent decline in the consumption of veal. It's been replaced by fungal enzymes that are less suitable than rennin, which can result in off-flavors and reduced yields in cheddar.

That's where biobone comes in. Encased in a reactor that resembles a 45-gallon drum, the material is treated with an enzyme wash, which introduces enzymes like rennin to the pores of the bones. "It's like a condominium development for enzymes," says Findlay. "The enzymes secure themselves to the pores, adhering and reacting, while materials like milk are pumped through the biobone."

So far, Yada has determined that enzymes will adequately adhere to the bone without a bonding agent, a factor that will keep the product pure and in its natural state. He will spend the duration of the 18-month, $144,000 project designing a reactor with commercial capability.

Besides Bioprotein Canada Inc., funding for the project is being provided by the National Research Council. O

Searching for birth parents: survey shows mixed reactions

by Mary Dickieson

Ontario's new adoption legislation, which makes it easier for adoptees and birth relatives to get information about each other, is a major step forward, says Prof. Michael Sobol, Psychology.

"Society is beginning to recognize that adoption is a lifetime experience, not simply a legal contract between adoptive parents and the state," says Sobol, who has done extensive research on the adoption experience. Previous legislation did not recognize the psychological needs of the adult who was adopted as a child, nor those of the biological and adoptive parents, he says.

Amendments passed in July allow for the release of non-identifying information, such as family background and medical history, to adoptive persons over 18 years. Birth relatives can receive similar information about an adoptive family's background. Consent of the adoptive parents is no longer required.

An adoptee can learn the identity of birth parents if both parties have entered their names with the Adoption Disclosure Register, or can request that the Ministry of Community and Social Services conduct a search and let birth relatives know a reunion is desired.

The expectation that all adoptees will want to embark on such a search is unrealistic, says Sobol. In a survey of adoptees, he found that many had no desire to meet their natural parents, and that only 25 per cent of those who were searching actually wanted to establish a relationship with their parents. More than half the searchers simply wanted factual information such as their identity and place of origin.

Of course, some people were searching because they felt there was a gap in their lives, he says. Others wanted to locate lost siblings and some were seeking a greater sense of identity. And a few simply wanted to assure their birth parents that their adoption was successful.

Of the adoptees who said they would not search for their biological parents, one-third said they were afraid of hurting their adoptive parents, says Sobol. Others feared rejection, weren't prepared to face the emotional consequences of a search or didn't want to disrupt the lives of birth relatives.

Many said they simply had no interest in learning the identity of their natural parents. "Some people have very successful adoptions, feel totally rooted with their adopted parents, and for them it is not a concern," he says.

Whether they were searchers or non-searchers, the adoptees in Sobol's survey always made a distinction between "biological" parents and "real" parents. The people who did the psychological nurturing, took them to the bathroom as toddlers, waited up for them as teenagers and gave them love and support are the people they relate to as "parents," he says. O

Fighting back against heart disease

by Owen Roberts

A damaged cardiovascular system is like a war zone. Arteries and veins, once strong and healthy, are bombarded with lethal substances that ravage tissue and impede circulation.

But with the help of a $400,000, five-year grant from the Medical Research Council of Canada — and a generous supply of volunteers' blood — Prof. Bruce Holub, Nutritional Sciences, is setting out to end a deadly cardiovascular phenomenon that afflicts half of the 80,000 Canadians who die from heart disease each year.

Holub's research centres around the haphazard release of "arachidonic acid" (AA) from blood platelets and the consequential release of a damaging metabolic byproduct, "thromboxane," into the bloodstream.

For some reason, as blood races through diseased arteries and veins, AA explodes from normally passive microscopic blood platelets, sparking the formation of thromboxane. This makes the platelets clump and collect, resulting in a "thrombosis" or blockage inside the arteries. Because thromboxane also causes narrowing of the blood vessels, it further restricts blood flow in already strained vessels, putting excessive demands on the heart.

No one knows, however, what triggers the release of AA. So Holub is working with his graduate students — Murray Skeaff, Lisa Thomas, Harold Aukema and Doug Gaudette — to find out what catalyzes that lethal AA eruption. "If we can find it and control its release, it will help us control arterial thrombosis," he says.

Holub is already known for his related work with dietary fish oil, which contains a compound like AA called "eicosapenthaenoic acid" (EPA). His studies have shown that EPA displaces AA in the bloodstream, resulting in less thromboxane formation and platelet clumping, which lessens the risk of arterial thrombosis. In fact, he suggests a diet of high EPA-level fish such as herring and mackerel three times a week.

Holub hopes the results of his investigation will be important medically and commercially. "There are drug companies that would like to produce EPA capsules that would reduce AA release in patients at risk. And the more the EPA story unfolds, the more it could lead to the consumption of Canadian fish products," he says. O

The great pretender — 'steak analogue'

Meat processors are constantly looking for new, palatable uses for carcass trimmings and low-value meat cuts. That pursuit led to the development of popular foodstuffs such as hot dogs, hamburgers and some sandwich meats, commonplace in many Canadian diets. But two University researchers are closing in on a new wave in carcass use — "steak analogue" or restructured beef.

Like its poultry counterparts, the chicken nugget and chicken filet, a steak analogue is assembled by flaking and mixing trimmings and pieces too small for commercial use, and forming them into one solid piece of meat.

The result, say researchers Prof. David Stanley, Food Science, and PhD student Victor Bernal, is a 100-per-cent beef product. "We are trying to make it as steak-like as possible," says Bernal, "but we think it will ultimately be marketed as something halfway between steak and ground beef."

The researchers expect the product to be available for institutional use by 1990. It will be marketed frozen and is designed to be cooked without thawing, because it is the application of heat that causes this composite product to bind.

Steak analogue has undergone sensory evaluations for texture, flavor and palatability, with texture being the most difficult aspect to master. The researchers are now studying alternative manufacturing techniques aimed at making a product with a uniform size and shape for more consistent texture.

Bernal says the development of products like this will result in better use of animal resources and will upgrade the value of certain cuts of meat. Stanley says the analoguing process is so technologically innovative that "it will be one of the biggest things to happen to a very competitive meat industry in a long time." O

Coming events

THURSDAY, Sept. 17

Concert - Kevin McMillan and John Greer, baritone and piano, 12:10 and 1:10 p.m., MacKinnon 107, free.
Biology Seminar - "Molecules to Men: The Concept of Progress in Evolutionary Biology," Michael Ruse, 1 p.m., J.D. MacLachlan building 102.
Worship - Meet and Eat, noon, University Centre 335; Social Evening, Ecumenical Campus Ministry (Anglican, United, Baptist and Lutheran), 5 p.m., Mature Students Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Social Evening, Roman Catholic Ministry, 6 to 9 p.m., UC 335; Christian Coffee House, Great Commission Students, 7:30 p.m., UC 103.

FRIDAY, Sept. 18

Worship - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Ecumenical Holy Communion, 1:10 p.m., Chapel, UC Level 5.
Instructional Development Workshop - "Distance Education Concepts and Processes," 10 a.m., MacKinnon 132.
Current Issues in Agriculture - "Agriculture to the Year 2000 and Beyond," George Jones, 3 p.m., Crop Science 121.
Cycling Club - Barbecue, 61 Tiffany St. W., call 837-1732 for information.

SUNDAY, Sept. 20

Cycling Club - Guelph Lake Extension (novice ride), 30 miles, 10 a.m., UC south doors.
Worship - Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry, 10:30 a.m., Chapel, UC Level 5; Great Commission International, 11 a.m., MacNaughton 105.

MONDAY, Sept. 21

Liberal Arts Series - "Surprise! We Have a Development Policy," Truman Phillips, noon, UC 103.
Worship - Roman Catholic Mass, 5:10 p.m., Chapel, UC level 5.
Information Session — Smoking Cessation Clinic, 6 p.m., MacKinnon 305.

TUESDAY, Sept. 22

Seminar - "NetNorth," 10 a.m., ICS building 212, register at Ext. 8888.
Worship - Catholic Mass, 12:10 p.m., Chapel, UC Level 5; Inquiry into Catholicism, 4:10 p.m., Room 335, UC; Faithfully Curious, 5 p.m., UC 335.
Our World - "The Colors of Hope," 12:10 p.m., UC 442.
Lecture - "Philosophy and Gender," Jean Grimshaw, 2 p.m., MacKinnon 904.
Physics Seminar - "The Detection of Extra-Terrestrial Neutrinos at Kamiokande II," Eugene Beiere, 4 p.m., MacNaughton 113.
Lecture - "The Function of Art in a Nuclear Age," Alan Gussow, 5 p.m., Landscape Architecture 204.
Open Forum - The Strategic Plan for the University, 7 p.m., MacNaughton 114.

WEDNESDAY, Sept. 23

Concert - Lambert and Jones, noon, UC courtyard.
Biochemistry Seminar - "Peroxidases, Mutagenesis and Oxidative Stress in *Salmonella typhimurium*," David Josephy, 12:10 p.m., MacNaughton 222.
Worship - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5; Great Commission Students fellowship meeting, 763-1282 for more information.
Red Cross - Blood Donor Clinic, 10 a.m. to 5 p.m., Peter Clark Hall.
Instructional Development - "An Aid to Teaching: Knowing Your Students," 2 p.m., MacKinnon 132.

THURSDAY, Sept. 24

Board of Governors - Meeting, 9:30 a.m., Boardroom, UC Level 4.
Concert - Monticello Trio, 12:10 and 1:10 p.m., MacKinnon 107, free.
Biology Seminar - "Migration and Human Adaptation," Michael Little, 1 p.m., J.D. MacLachlan 102.
Homecoming - Tours of OVC, 1:30 to 2:30 p.m.
Colloquium - "Social-Psychological Issues in Fetal Screening," Martin Richards, 3:30 p.m., FACS building 106.
Worship - Meet and Eat, noon, UC 335; Social Evening, Ecumenical Campus Ministry, 5 p.m., Mature Students Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Social Evening, Roman Catholic Ministry, 6 to 9 p.m., UC 335; Christian Coffee House, Great Commission Students, 7:30 p.m., UC 103.

FRIDAY, Sept. 25

Worship - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Ecumenical Holy Communion, 1:10 p.m., Chapel.
Plant Sale - Canadian Crossroads International, 9 a.m. to 5 p.m., UC courtyard.
Liberal Arts Series - "Canada's Official Development Assistance Policies and Programs," Bill Winegard, noon, Animal Science 141.
Lecture - "Autonomy and Identity in Feminist Thinking," Jean Grimshaw, 3 p.m., MacKinnon 317.
Homecoming - Special OVC Convocation and 1987 Schofield Memorial Lecture, "The Animal Welfare Bête Noir in Veterinary Medicine," Franklin Loew, 3 p.m., War Mem Hall, tickets at Ext. 4401; Old-Time Creelman Dinner, 6:30 p.m., Creelman Hall; Student Leaders' Alumni Reception, 6:30 p.m., UC 103; Musical Revue, "VETS," 8:30 p.m., War Mem Hall.

SATURDAY, Sept. 26

Homecoming - Brunch, 10 a.m., Brass Taps; Homecoming Parade, 12:30 p.m., starting on campus; Football Game, Guelph vs Wilfrid Laurier 2 p.m., Alumni Stadium; All-You-Can-Eat Spaghetti Dinner, 4:30 to 6:30 p.m., PCH; BioBash Alumni Pub, 6 p.m., UC 103; Pub, 8 p.m., PCH.

SUNDAY, Sept. 27

Homecoming - Creelman Breakfast, 9 to 10:30 a.m., Creelman Hall.
Worship - Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry (Anglican, Presbyterian, United, Lutheran), 10:30 a.m., Chapel, UC Level 5.
Concert - Guelph Concert Band, 2:30 p.m., OAC Centennial Centre, The Arboretum, free.
Conference - "Questions of Peace and War," Guelph Committee Against Imperialist War Preparations, 3 p.m., Peter Clark Hall.
International Cinema - "Boat People," 8 p.m., MacNaughton 103.

MONDAY, Sept. 28

Alcohol Awareness Week - Displays, Breathalyser Test, Videos, University Centre courtyard, continues to Oct. 1.
Worship - Catholic Mass, 5:10 p.m., Chapel, UC level 5.
Skills Training Series - "Agricultural and Rural Development in Nigeria," Development Education Program, 7 p.m., UC 332, $2.50.

TUESDAY, Sept. 29

Worship - Roman Catholic Mass, 12:10 p.m., Chapel, UC Level 5; Bible Study, 7 p.m., UC 332; Inquiry into Catholicism, 4:10 p.m., Room 335, UC; Faithfully Curious, 5 p.m., UC 335.
Our World - "Environment in Developing Countries," 12:10 p.m., UC 442.

WEDNESDAY, Sept. 30

Concert - Paul James, noon, UC courtyard.
Biochemistry Seminar - "Are There Microtubules in Death Valley? An Investigation," Robert Keates, 12:10 p.m., MacNaughton 222.
Worship - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5; Great Commission Students fellowship meeting, 763-1282 for more information.
Speaker Series - "The Secret Wars of the CIA," John Stockwell, 7:30 p.m., War Mem Hall, $6 general, $5 students.

THURSDAY, Oct. 1

Instructional Development Workshop - "Students' Intellectual Development," 10 a.m. to noon, MacKinnon 132.
Worship - Meet and Eat, noon, University Centre 335; Social Evening, Ecumenical Campus Ministry, 5 p.m., Mature Students Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Social Evening, Roman Catholic Ministry, 6 to 9 p.m., UC 335; Christian Coffee House, Great Commission Students, 7:30 p.m., UC 103.
Concert - Paul Bempechat, piano, 12:10 and 1:10 p.m., MacKinnon 107, free.
Biology Seminar - "Fibre Optics in Biological Research," Howard Swatland, 1 p.m., J.D. MacLachlan 102.
Gerontology Student Association - An Evening With Robert McClure, 8 p.m., Creelman Hall, $5 general, $3 students and seniors.

Continuing Education responds to demand for 'how-to' life skills training courses

New this fall from the Division of Continuing Education are a number of "how-to" seminars and workshops designed to answer the public demand for life skills training. Program managers have lined up some dynamic, fast-paced presentations that will stimulate participants to take the initiative for their own personal and professional development, says Virginia Gray, associate chairman of the division.

A new "Success Seminar for Secretaries" Oct. 21 provides instruction in time management, goal setting, memory improvement, developing a management style and dealing with difficult people. A special "Women's Weekend" Oct. 30 and 31 offers an opportunity for all women to participate in professional development programs, discuss women's issues and acquire new career insights and skills.

Dr. Robert Bramson, author of *Effective Coping with Difficult People* and co-author of *Styles of Thinking* and *The Stressless Home*, will share his knowledge of behavior and managerial performance in three one-day seminars Oct. 15 to 17. On Nov. 10 and 11, Continuing Education will present "Think on Your Feet," oral communications workshops on media skills developed by Dr. Keith Spicer, Canada's first commissioner of official languages.

Also new this fall are French-language workshops that will take participants into the community to practise their skills, a course on grandparenting and a certificate program in communication that companions those in human resource management and personnel administration.

The lineup includes such old favorites as "Calligraphy," "Symphonic Music," "Mysticism," "Songs for Non-Singers," "Entrepreneurship," the "Certificate Program in French," the "Novice Farmer Program" and a course on "Writing for Children." It also adds to last year's successful "Introduction to Mandarin" by offering a course for travellers, and has expanded the microcomputing series with new WordPerfect clinics and a course in desktop publishing.

Richard Leavens, assistant chair of the Division of Part-Time Studies, will offer a two-night workshop for mature students Oct. 20 and 27. It recognizes that adults need to know in advance *what they can expect* from university life, says Leavens. "So You're Thinking of Going to University" will describe courses and programs of study, show students how to take notes and demonstrate a sample lecture.

One-day workshops on "Meeting the Media" Oct. 3 and "Effective Meeting Management" Oct. 7 will help volunteers and professionals advance the objectives of their organizations.

For a complete list of courses and registration details, call Ext. 3956. O

Personals

For Sale: 1978 Saab EM2, four-speed, new paint, tires, 822-0417, evenings. Three-bedroom, raised brick bungalow, within walking distance of University, close to schools, central air conditioning, fireplace, enclosed carport, garden, 822-5914. National Geographics, 1960-1978, with hardcover index; Sony reel-to-reel tape deck (TC 250), 416-248-9286 (Toronto). 1983 Plymouth Reliant, one owner, certified, four-door, four-cylinder, standard, 821-1447, after 5 p.m. Garage sale, furniture, appliances, dishes, collectables, etc., Sept. 19 and 20, 10 a.m. to 5 p.m., 105 William St., 824-7522. Three-bedroom bungalow on Dean Avenue, 10 minutes from campus, Ext. 3792 or 824-1438. Professional hair dryer, vibrating footbath, heating lamp, 33-gallon aquarium stand, 824-0275. Maple desk, with three drawers, and chair, 763-7430.

Wanted: Small engine for canoe — gas 2 hp or electric 36-pound thrust, Ext. 3864 or 658-5311. Girl's dresses, size 4-6X, 821-9401. Experienced rider for nine-year-old gelding, Patsy, 4976 or 836-8704. Car pool from Waterloo to University, Monday to Friday, Yvonne, Ext. 2281 or 884-5022.

Available: Japanese language class for beginners, Kohzoh, Ext. 4833 or 821-7265, after 6 p.m.

For Rent: Duplex house — upper three-bedroom, $550 per month, lower two-bedroom, $400, available October, about 9 km from University near Guelph Lake, full- or part-time farm position also available, Gord, 824-8609. Room, can be furnished, kitchen and laundry facilities, $285 per month, references required, 853-2836, after 6 p.m. Secluded holiday cottage, three double/twin rooms for rent, in Camargue, S. France, Dr. P.M. Rogers, Mas D'Auphan, Le Sambuc, 13200 Arles, France, Telex VIA 410804F.

"Personals" is a free service offered by At Guelph *for staff, faculty and students at the University. All items must be typed, double spaced, and submitted to* At Guelph *one week before publication.*

UC calls for entries in first-ever art exhibition

The University Centre is offering something new this year — Expressions '88 — an exhibition and sale of Canadian fine art to be held March 18, 19 and 20.

The UC, which has hosted the Fair November craft show and sale for 12 years, will be offering booth space to accomplished and promising artists to display and sell their works.

During the show, there will be a number of free events — a children's art exhibit, framing display, lectures on conservation framing and a slide presentation of wall decor ideas.

For more information or to apply for booth space, write to Expressions '88, Room 266, University Centre, or call Paul Holland, Ext. 2895. O

Positions elsewhere

Notice of the following vacancy outside the University has been received by the Office of the President:

The University of Ottawa is seeking candidates for the position of director of research services. Submit applications, including the names of two references and competition number SP-87-180, by Sept. 23 to Human Resources Services, Staffing Division, 110 Wilbord St., University of Ottawa, Ottawa K1N 6N5.

HOMECOMING 1987

Maybe Thomas Wolfe could never go home, but each year hundreds of University of Guelph graduates make their way back to the place they once called home to help celebrate Homecoming Weekend.

Festivities get under way a day early this year as registrants for the OVC Anniversary Conference arrive Thursday evening, Sept. 24. The college will take advantage of the Homecoming momentum to mount a celebration of its 125th anniversary.

In addition to the conference for practising veterinarians, OVC will host a special convocation and the annual Schofield Lecture Sept. 25 at 3 p.m. This will be followed by an old-time dinner in Creelman Hall, complete with metal trays and noise, and a musical revue at War Memorial Hall.

Other colleges and schools will hold reunions, barbecues and receptions to make their alumni and new students feel at home.

The Gryphon Hall of Fame Dinner will be held at the Cutten Club on Friday evening, getting everyone in the spirit for Saturday's Homecoming Parade at 12:30 p.m. and the football game at 2 p.m. in Alumni Stadium. At half-time during the Guelph-Wilfrid Laurier match, the winning ticket will be drawn for the red Corvette, first prize in the Department of Alumni Affairs and Development's fund-raising contest for *The Campaign*. .

After the game, the Central Student Association's annual pub will be held in the Athletics Centre, with the overflow in Peter Clark Hall.

For details of other Homecoming activities, see "Coming Events" in this issue. O

Cover: Students on the move as the fall semester moves into full swing.
Photos by Photographic Services

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UNIVERSITY of GUELPH

At Guelph

Volume 31 Number 28 September 24, 1987

UNIVERSITY of GUELPH

At Guelph

Strategic planning paper goes to Senate, CUP to make recommendations Sept. 29

Senate will continue discussion of the University's strategic planning paper at a special meeting Sept. 29, and will hear the Committee on University Planning's recommendations on the strategic plan.

CUP chair Prof. Bev Kay, Land Resource Science, introduced the paper to Senate at its regular meeting Sept. 15, with the aim of generating discussion that would help the committee form recommendations. But time constraints kept the discussion short.

In presenting the report, Kay described it as a discussion document, "as an agenda that identified a number of issues that need to be addressed in the coming year. The original intent of the document was to provide a first step in a planning process that would be part of an ongoing activity. What you have in front of you then is a first step. It is not totally without faults."

Kay said it's important for the University to try and deal with the major issues that are facing the institution, "major issues such as how can we achieve what we want to achieve with the current allocation of resources in the discretionary part of our budget. And if we're somehow going to get more resources in that part of our budget, how are we going to do it?"

The strategic planning paper was written by Vice-President, Academic, Jack MacDonald, Vice-President, Administration, Charles Ferguson, OAC Dean Freeman McEwen, FACS Dean Richard Barham and Derek Jamieson, director of institutional analysis and planning. It was distributed to the University community in July through *At Guelph*, with a request for comments. Kay said a number of letters had been received and suggestions had been incorporated into the final draft.

President Burt Matthews said he had received some comments on the draft report that "suggested to me that some people didn't understand why this document was even written. They didn't even understand that it was a request of Senate. And they certainly didn't understand that it was an agenda, rather than a bunch of definitive decisions or directions."

Matthews said he had taken Senate's request for a strategic plan as a directive "to put forward a document that would outline the major critical questions to be addressed in the 12 months ahead. I found that to be a fascinating request... and entirely appropriate.

"I also interpreted that I was to deal with the major questions, not just on the academic side and not just in the area with which Senate would be concerned as a body, but in the whole University so that when Senate addressed its critical questions, it would do so in the context of the total University."

Matthews said he thought the questions contained in the document were "of critical importance. And I would hope that Senate would see these as important questions — none of which are answered in this document. But I'm hoping that Senate will face up to the responsibility of making sure that the questions in its domain are, in fact, answered."

MacDonald told Senate that the plan had been "substantially modified" in response to comments, so the plan now "much more faithfully represents the message we were trying to convey in the first place." Nothing in the plan speaks contrary to the University's aims or the college's five-year plans, he said. "The plan is intended to address those issues that compromise or limit our abilities."

MacDonald said the authors of the planning paper had been asked to develop a process, "and we have done that. We were also asked to develop a first-year strategic plan. And since it was a first-year plan, we had to ad hoc it."

The plan doesn't address every issue, he said. "We have selected the issues that we think are of utmost important in carrying out the functions of the University, related directly to the University's aims. And so there's not everything in there for everybody."

A student senator said he was concerned about the timing of the document. Students have just arrived back on campus and haven't had time to read and assimilate the report, he said.

"Many people have been concerned about *the timing and the seeming haste with which we* have proceeded with this," said MacDonald. "But whether we wish it or not, we have to start to put a budget together later this month, and we would rather have a budget based on the recognition of these kinds of issues. This first year, the timing is bad, but it's better than not considering these issues at all."

Matthews said it was important for senators to remember that Senate itself had asked the president to produce the document. "And they asked him to produce it by June, and then to be considered by Senate in September."

He said requesting the document was "an excellent thing for Senate to do . . . to force its president to put it out on the table." Senate doesn't have to agree with the plan and doesn't have to carry out any of its suggestions, he said, but "it's perfectly reasonable for Senate to request the president to put his or her position out there."

Matthews said he's "delighted that the University and Senate are facing up to these very important questions. It's one thing to approve an aims and objectives document . . . but it's just a bunch of words unless we get some action. And that's what this is supposed to prompt. If we don't get that, then we've got an aims and objectives document gathering dust."

An open meeting was to have been held Sept. 22 for members of the University community to discuss the strategic plan. "The more discussion we can have on these important issues, the far better off we will be," said Matthews. "I'm really delighted to find the interest that there is. So if you can have a meeting every day . . . it would be just great."

For more Senate news, see page 2. O

Graduate dean, biochemist to receive honorary degrees

Historian Sydney Wise, dean of graduate studies at Carleton University, and biochemist David Idler of Memorial University, Newfoundland, are to receive honorary degrees at fall convocation Oct. 2. Retired English Language and Literature professor Alexander Ross will be named professor emeritus.

Idler, who is to receive an honorary doctor of science at morning convocation, is director and professor of biochemistry at the Marine Sciences Research Laboratory at Memorial, a position he has held since 1971. From 1953 to 1971, he worked with the Fisheries Research Board of Canada in Vancouver and Halifax, serving as associate chemist, investigator-in-charge, assistant director, director and, finally, Atlantic regional director of research.

The author of more than 250 scientific publications, Idler holds a BA and MA from the University of British Columbia and a PhD from the University of Wisconsin. His primary area of research is biologically active natural products, with an emphasis on the hormonal control of fish reproduction.

He was the 1986 winner of the Fry Medal of the Canadian Society of Zoologists and was elected a fellow of the Royal Society of Canada in 1971.

Wise, who is to receive an honorary doctor of laws at afternoon convocation, has been on faculty at Carleton since 1973 and dean of graduate studies since 1981. Prior to that, he was director of the National Defence Headquarters' directorate of history, a professor of history at Queen's University and a lecturer at the Royal Military College.

He has an extensive list of publications, including authorship or co-authorship of four books: *Men in Arms, Canada Views the United States, Canada's Sporting Heroes* and Canadian Airmen and the First World War. His many articles have made a major contribution to Canadian history, particularly on the topics of the loyalist tradition and establishment of the Canadian identity.

A graduate of the University of Toronto and Queen's University, Wise has lectured throughout Canada, the United States, Europe and Australia. In 1983, he was elected a fellow of the Royal Society of Canada.

Ross joined the Ontario Agriculture College's department of English in 1948, becoming head of the department in 1960. In 1964, he played a major role in establishing the department of English at the newly chartered University of Guelph and served as chair of the department until 1974. He retired in 1978.

Ross is the author of three books: *W.H. Bartlett, Artist, Author and Traveller, The College on the Hill, a History of the Ontario Agriculture College and The Imprint of the Picturesque on 19th-Century British Fiction*, which was published last year. While on faculty at Guelph, Ross served as a member of Senate, acting dean of the College of Arts and chair of the Guelph chapter of the Humanities Association. He will be named professor emeritus at afternoon convocation. O

Sydney Wise

David Idler

Report on Senate

Marketing — caution urged in philosophy, wording of University/community interaction document

A working group of the executive committee of Senate is choosing an appropriate set of recommendations from the *Report of the ad hoc Committee on University/Community Interaction* for Senate to act on at a meeting later in the fall.

At that meeting, Gerry Quinn, director of Public Relations and Information (PRI), is to present a report on recent changes in strategy in PRI, which is expected to provide background for Senate to deal with the recommendations.

The 50-page report, with appendices, was accepted for discussion by Senate Sept. 15. Presented by committee chair Prof. David Douglas, director of the University School of Rural Planning and Development, it contains 56 recommendations, including a University-wide commitment to the use of marketing techniques for courses and services the University offers to its various publics. It also recommends that a marketing office be set up in an administrative unit such as PRI.

The report makes three sets of recommendations, said Douglas. The first addresses issues of philosophy or corporate attitude about the role of information, the issue of marketing, and strategic choice. The second deals with first steps towards implementing the report's recommendations. And the third has specific recommendations relating to the six communities encompassed by the committee's report.

The report is in response to Aim 5.2 of *Toward 2000: Challenges and Responses. Aims and Objectives of the University of Guelph.* Establishment of the committee was approved by Senate in March 1986. Made up of equal numbers of campus and community representatives, the committee was asked to review the University's interaction with the wider communities and consult with them. It was also asked to look at what other universities are doing and to recommend changes for improvement.

Douglas told Senate that six "client communities" were surveyed — the arts community, business community, labor, 54 Canadian and American universities, the media and the general public. The committee then held focus groups. Douglas said the committee reached the following conclusions:

- The University's interaction with its various communities is diverse;
- There are many successes to build on;
- There is a close inter-relationship between the University and the arts community and the media;
- Guelph is not alone among universities working to improve university/community interaction;
- The University presents an imbalanced, incomplete and outdated image externally, which influences the number and types of communities that look to the University for services and the kinds of services they expect;
- The University is not well connected with the general public — it has little knowledge of what the University does — and there is some ambivalence and distancing;
- The media view of the University is restricted;
- Local and national businesses know relatively little about the University;
- Little is known about the University by labor organizations and local government; and
- Most people view the University as an increasingly remote, complex and inaccessible institution.

Some faculty warned of danger to academic freedom if a marketing approach to course offerings is implemented. Prof. Gil Stelter, History, won applause when he said the public relations office is "mixing with what the rest of us do. Leave p.r. to the p.r. people," he said. He called for a reorientation of the wording and philosophy of the document.

Prof. Renate Benson, Languages and Literatures, said the recommendations will head the University in the direction of a technological institution. Some of the tasks listed in the report should be carried out by community colleges or high schools, she said. The recommendations are "pushing us away from the meaning of the University. Once we start marketing, we must sell our courses, and if they don't sell, then they come off the market — and that's not what a university is all about. This would place the University in a dangerous situation."

Prof. Stan Blecher, director of the School of Human Biology, said if the report were implemented, criteria other than academic would be applied in what should be strictly academic decision making. This would threaten the institution as a community of scholars, he said.

Prof. Helier Robinson, Philosophy, added that research and scholarship "are not marketable commodities at all."

Prof. Ab Moore, chair of the Department of Rural Extension Studies and a member of the committee, said the term "marketing" is not regularly used in the halls of academe, but it is important to recognize it.

"We are not asking the University to prostitute itself," he said. We want it to determine what it is, what it is doing and what is worthy of exploration . . . and marketing is worthy of exploration. Marketing is more than selling and salesmanship; it is a concept that helps us do our homework first before offering our services to the community."

Peter Hannam, a member of the committee representing the agribusiness community, said the committee focused on how to make the University well-known. If the University is serious about expanding beyond its own community, it must know how it can best serve others, he said.

Douglas was joined on the committee by Profs. Terry Crowley, History, and Ron Downey, OVC dean's office; James Finamore, community labor representative; June Hagar, community representative; Michael Henry, manager of the Guelph Chamber of Commerce; Peter Kohl, publisher of *The Daily Mercury*; Marjorie Millar, director of Alumni Affairs and Development; Judith Nasby, director of the Macdonald Stewart Art Centre; Mary Ramotar, Guelph Public Library; William Scott, principal of GCVI; Dr. James Schroder, community representative; Mark Waldron, director of the University School of Part-Time Studies and Continuing Education; Stan Young, co-ordinator of agricultural extension, OAC; Moore; Hannam; and Dale Lockie, assistant university secretary, as secretary. ○

Senate summary

In other business, Senate:

- Received for information the names of members of the Board of Governors appointees to Senate — Edmund Bovey, Solette Gelberg and Margaret Macrae, and the names of the Board of Governors members appointed to Senate standing boards and committees for 1987/88 — Donald McQueen Shaver to the research board; Gelberg to the library committee and William Brohman to the Committee on University Planning (CUP);
- Approved the lists of graduands for fall convocation;
- Received for information additions to associated and provisional graduate faculty. *Associated:* H.W. Anderson, Ontario Ministry of Natural Resources, Maple/Environmental Biology; G.K. Macleod, retired, Animal and Poultry Science; J.A. Matteoni, Agriculture Canada, Vineland/Horticultural Science; Michael Plishke, Simon Fraser University/Physics; D.J. Hendry, Alberta Agriculture, Lethbridge/Land Resource Science; and J.H. Houson, University of Toronto/Zoology. *Provisional:* V.G. Mahadevappa, Nutritional Sciences, and Cynthia Scott-Dupree, Environmental Biology;
- Adopted guidelines to ensure new awards are free of discrimination. The committee on awards says the University's scholarship program is generally free of major discriminatory factors, but it believes more definite guidelines for new awards would be useful.

All potential awards will be categorized under three classes:

Permitted — awards that do not involve any recognized discriminatory practices and therefore conform with the law and University standards. The majority of awards brought before Senate for approval are expected to fall into this category;

Prohibited — those awards in violation of the laws of the land or offensive to the moral and ethical standards of the University, such as discriminatory practices prohibited by the Charter of Rights and Freedoms and the Ontario Human Rights Code, and any attempts by donors to obtain favorable treatment from the University in its business dealings, or to influence the admission, performance and graduation standards of the University. Any potential award in this category would be recommended by the Senate committee on awards to Senate for its approval; and

Conditionally permissible — awards that might ostensibly be discriminatory, but ones that the University may accept because discrimination is not offensive in either purpose or result. This would include awards contingent on a student's birthplace or residence, awards that encourage native and ethnic minorities, awards that attempt to adjust male-female imbalances in programs of study and awards sponsored by a non-profit, lawful organization or group. An award in this category would require individual judgment by both the college awards committee and the Senate committee on awards before being presented to Senate for its approval. The guidelines also apply to any participation of the University in the administration of awards that are not given in the gift of the Senate. External awards must receive the approval of Senate before being publicized by the University;

- Approved a Committee on University Planning recommendation on the restructuring of central administration to bring student-centred activities into a closer working relationship with the existing academic structure. It places the units involved under an officer reporting to the vice-president, academic, eliminates the position of provost and creates the position of associate vice-president, student affairs, within the office of the vice-president academic.

The units that have traditionally reported to the provost — Athletics, Counselling and Student Resource Centre, Medical Services, Residences and the Student Environment Study Group — will report to an associate vice-president, student affairs.

A task force, chaired by the vice-president, academic, will study possible changes to the reporting relationships of units reporting to the vice-president, academic, and its report will be taken to Senate by CUP for information at a later date. ○

At Guelph

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The superstructure of the Equine Research Centre on McGilvray Road is taking shape. Construction is going well, says the centre's director Dr. Russ Willoughby. The building, expected to be completed by the end of December, will likely open officially in May 1988.

Photo by Herb Rauscher, Photographic Services

Going after the 'party peanut' market

With double the acreage of last year and five times as many growers, the peanut harvest in southern Ontario this fall is at an all-time high, says Prof. Tom Michaels, Crop Science.

Michaels, head of the University's peanut breeding and evaluation program, which is funded by the Ontario Ministry of Agriculture and Food, says there are about 20 farmers in the Delhi tobacco belt growing almost 800 acres of peanuts this year. To consolidate equipment purchases and marketing, they've formed a growers' co-op and are now negotiating for government assistance to acquire a shelling and packaging plant.

"I'm convinced that peanuts are one of the better options for tobacco farmers who are looking for alternative crops," says Michaels. "The market can still absorb a great deal more production."

Over the last eight years that peanuts have been grown in Ontario, farmers here have been able to satisfy less than one per cent of the market demand. Most of the supply — about 90 per cent — comes from the United States, largely for the peanut butter trade. Because of the U.S. government's price support system for American farm goods, Canadian peanut butter processors can buy American peanuts cheaper than Canadians can produce them.

"But industry analysts agree that American peanuts aren't as sweet as the ones we grow here," says Michaels, "so we're going after the cocktail peanut market — the 'party peanut' trade."

But first, Canadian peanuts have to grow up. Although the Canadian Valencia peanut is sweeter than its American counterpart, the Runner, it's significantly smaller and less attractive to retailers. So at test plots at the Cambridge Research Station and the federal research station in Delhi, Michaels is crossbreeding the Valencia to beef it up.

"By looking for uniformity in the cultivars we're breeding, we've seen increases of up to 10 per cent," says Michaels. "It's noticeable, but not dramatic, so we'd like to get them about 20 per cent bigger yet."

Michaels says the Ontario peanut crop will likely reach 1,000 acres next year if the growers' co-op is successful in obtaining financial assistance. "That acreage will be a milestone," he says, "but even if we could satisfy all the Canadian demand for peanuts, we would still only displace about half the acreage once occupied by tobacco."

Michaels says peanuts thrive in the sandy soil of the Delhi area, but they'll grow equally well in a loam-based garden. "Heat, more so than soil type, is what counts," he says. ○

With double the acreage and five times as many growers as last year, this fall's Ontario peanut harvest looks promising. U of G researchers are involved in peanut breeding and field tests to help the Ontario industry be more competitive. Here, technician Tom Smith displays a sample of peanut plants grown at the Cambridge Research Station. *Photo by the Office of Research*

Chemist searches for efficient electrical source

Research by Prof. Jacek Lipkowski, Chemistry and Biochemistry, may mean more abundant and cheaper energy for Canadians. Lipkowski is working on the development of fuel cells using platinum and gold electrode material, which could improve the present methods of electrical energy storage.

The advantage of fuel cells over ordinary batteries is that they produce energy continuously and do not need recharging. Usually they are powered by oxygen and hydrogen.

Such fuel cells consist of two platinum electrodes placed in separate containers of phosphoric acid (or polymer electrolyte) joined by a semi-permeable membrane. Hydrogen is supplied to the anode, where it oxidizes to produce hydrogen ions and electrons. Oxygen is reduced at the cathode where it takes the electrons, then reacts with the hydrogen ions to produce water.

To balance the two reactions, the protons produced by the hydrogen oxidation move towards the cathode to react with the product of oxygen reduction. The result is an electrical current.

"The power generated in the fuel cell is governed by the efficiency of the chemical reactions at the two electrode surfaces," Lipkowski says. In an effort to optimize this power, he is studying the influence of the structure of platinum and gold surfaces on the rate of oxidation and reduction processes.

The microscopic defects and cavities common to the surfaces of all metals serve as the active sites for electro-chemical reactions. If Lipkowski can determine which sites are involved in oxidation of hydrogen and reduction of oxygen, he'll be able to make a more efficient platinum electrode and increase the power generated in the hydrogen/oxygen fuel cell.

Lipkowski and his group are producing single platinum and gold crystals, each cut at a different angle, in an attempt to simulate different surface co-ordinations. By taking these single crystals, the researchers are producing a variety of irregular surfaces and trying to determine which of these structures has the best rate of oxidation of hydrogen. This knowledge should make it possible to design a platinum or gold electrode to convert chemical energy to electricity extremely efficiently.

If Lipkowski can figure out how to regulate the voltage of the fuel cells, this technology could be used to balance the peaks and valleys of electrical use. During low periods, surplus electricity could convert water into its component hydrogen and oxygen. In peak periods, the hydrogen and oxygen could be bubbled into acid to make electricity, making it possible for Ontario Hydro to supply commercial and private needs with smaller generators.

Fuel cells also have medical uses, says Lipkowski. Implantable cells powered by glucose and oxygen could be used to run heart pacemakers, alleviating the expense and discomfort of operations to replace the batteries. There is even the possibility that an artificial heart could be powered by a portable fuel cell carried in a briefcase.

Lipkowski's research is supported by annual grants from the Natural Sciences and Engineering Research Council. ○

Cell division research has medical implications

"The head bone's connected to the neck bone, and the neck bone's connected to the shoulder bone . . ."

Everyone knows the human body is supported by the skeleton, but few people know about another equally important system that supports the individual cells that make up the body.

These rod-like assemblies or microtubules, as they are called, are the subject of research by Prof. Bob Keates, Chemistry and Biochemistry. They have important implications in the runaway cell growth that is cancer, and also in the cell growth that speeds up wound healing.

Like a sea anemone that shrinks back into itself when touched, the microtubules retract just before cell division, breaking up into their constituent protein sub-units and reassembling to form bridges between the new centrosomes.

It's along these mitotic spindles that cell chromosomes are sorted out, with one chromosome from each pair going to each new cell. Once cell division or mitosis is complete, the spindle comes apart and the microtubules again extend from the cell centre towards the cell membrane.

Keates has discovered that the protein spectrin anchors the microtubules to the cell membrane, forming a frame like the chicken wire in a papier-mache model. He conducted his research on fresh cow brain cells, but because he wants to see if microtubules in non-brain cells work in the same way, Keates and his research group are now using a preparation of mouse cells known as "mouse 3T3," commonly used for studying the regulation of cell division.

Keates says that unless they are tampered with, mouse 3T3 cells, like all normal cells, have what is known as contact inhibition — they grow attached to a surface until they touch each other, at which point growth stops. By subjecting these cells to radiation, viruses or chemicals, researchers cause runaway cell division that gives them an experimental model for cancer. By studying this type of runaway cell division, the scientists are learning more about the processes of normal and abnormal cell reproduction.

Mouse 3T3 cells are not the perfect medium. They are slow to grow and only three per cent of their protein consists of microtubules, compared to 25 per cent in cattle brain cells. In spite of the difficulties, however, Keates thinks he is close to a breakthrough on the microtubule-spectrin connection.

"Spectrin appears to be linked with the contact between the end of the microtubules and the cell membrane," he says. He suspects the two are aligned at specific points. Spectrin, he says, may be attached to sections of the microtubules, or may coat the inside of the cell membrane.

The results will give cancer researchers important insights into methods of stopping runaway cell growth and could eventually lead to development of a compound that would speed healing after operations.

Keates isn't likely to run out of research projects. He wants to learn how cells know when to break down the array of microtubules to make the mitotic spindle and what causes microtubules to detach from cell membranes just before this process.

Keates has been at Guelph since 1977. His research is supported by a grant from the Natural Sciences and Engineering Research Council. ○

Cattle on prime land: a look at cropping practices

Grazing cattle on prime agricultural crop land has been considered an uneconomical farming practice. After all, there's plenty of marginal land available for pasture.

But producers who have spent years cultivating fertile soil for cash crops like corn and wheat are now seeking alternative profitable ways to use that land, in the face of a worldwide grain glut. And although it's still an unconventional line of thought, Crop Science professor Ann Clark says prime land might actually be better served with cattle than crops.

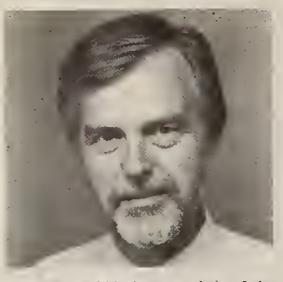
Clark, who established the University's grazing management research facility, says producers should consider short-term, intensive pasture management. She says it's environmentally sound and that withholding crop tillage for a three- to five-year period would allow exhausted soil to rejuvenate from the more than quarter century of steady cultivation that has depleted its nutrient base. In addition, she says, perennial forages enhance the soil structure by adding essential organic matter.

Central to Clark's research are her efforts to devise profitable, forage-based alternatives to continuous grain production. Most recently, this has involved grazing cattle at a 50-acre prime land pasture plot at the Elora Research Station. There, animals have shown an average gain of 370 pounds each. That far surpasses the provincial average of 250 pounds, suggesting a favorable comparison between beef production on intensively managed pasture and confinement rearing in feedlots.

There are social benefits to this type of farming practice as well, says Clark. Weeds and insects are less of a problem in the pasture, thus lessening the amount of herbicides and pesticides farmers must use to control them. And those concerned with animal rights may find the concept of "free-roaming" animals more acceptable than confinement rearing, she says.

Dean of research Larry Milligan says Clark's work represents a "radically different" way of looking at farming. "But in these troubled economic times, maybe we should take an unconventional look at cropping practices," he says. ○

Bruce Wilkie chairs VMI



Dr. Bruce Wilkie became chair of the Department of Veterinary Microbiology and Immunology July 1. He is also the director of the Animal Biotechnology Centre. Wilkie succeeds Prof. Allan Meek, who is now acting associate dean of research for OVC.

Wilkie says he doesn't expect to make many changes in VMI because "it is already a very cohesive unit where the people have similar ideas about how things should be done." He says he sees his task as keeping up the good work and trying to maintain a good working/academic environment.

VMI has received a funding commitment from *The Campaign* for a new physical lab, "and now we need to find the money for faculty and technical positions to run it," says Wilkie. "I'll be working hard at that in both my capacity as chairman and director of the Animal Biotechnology Centre."

Wilkie, a 1965 OVC grad, received his PhD from Cornell in 1971 and spent two years practising in Switzerland before returning to OVC as an immunologist in 1973. He has the distinction of being in the first graduating class of the University of Guelph. O

Weed garden growing like a weed

Prof. Jack Alex, in protective clothing, cuts poison-ivy — one of the residents of the University's weed garden. *Photo by OMAF*

Canada's largest weed garden, located just east of the Botany/Genetics/Zoology building, reached the 15-species mark this summer . . . and its proprietor can't find a way to slow it down.

"It's great that we've been able to expand the population of our garden," says Prof. Jack Alex, Environmental Biology, who assumed control of the half-acre plot almost 20 years ago. "But these weeds have a mind of their own. Trying to confine them to one location has become a perennial problem."

The weed garden is a 30-year-old institution on campus. Its founder, botany professor Charles Waywell, maintained it for several years before handing it over to Alex, one of Canada's pre-eminent weed experts. Over the years, the garden has served as a model for two other Ontario weed gardens, at Ridgetown College of Agricultural Technology and at the federal agricultural research station at Harrow.

The plot features about half the field and garden weeds in Ontario. Alex adds new species in the course of his field work outside Guelph, or as living specimens of interesting species are submitted to the University for identification. Under his supervision, the resident population has grown annually and includes everything from pigweed to poison ivy.

The garden is maintained primarily as a service to people with a professional interest in weeds, such as provincial weed inspectors and entomologists who study the insects that infest weeds. Alex hopes that because the garden has reached an unprecedented size, he can secure funding to better maintain it.

"We can grow twice as many species of weeds in this garden if we can afford to keep it properly cleaned up," he says. "There's very little material expense associated with a weed garden, but making it presentable is a labor-intensive exercise." O

Courses

How to make the news

"Meeting the Media," a one-day workshop on campus Oct. 3, will show you how your organization or business can make the news.

Guest speakers for the workshop are Guus Hazelaar, CJOY/CKLA-FM radio; Peter Kohl, *The Daily Mercury*; Don Willcox, CKCO-TV; and Andrea Mudry Fawcett, Public Relations and Information.

When looking for media coverage, who do you contact at a newspaper, radio or television station? How do you decide which media are best for your needs?

These professionals will help your campaign to publicize a person, product, service or event by discussing practical skills. These include how to develop an overall media plan, write a press release or public service announcement, plan a news conference and get your message across in media interviews.

To register, contact Continuing Education, Room 160, Johnston Hall, Ext. 3956. O

Learn to write for children

The Division of Continuing Education is offering a "Writing for Children" non-credit evening course on campus this fall.

Beginning Oct. 6 and running for eight consecutive Tuesdays, the course will feature guest lectures by children's writers Robert Munsch, Jean Little and Welwyn Katz, says course instructor Marianne Micros.

Micros will encourage participants to present their own writing for review during the course. She will also discuss favorite children's books, the history of children's literature in Canada, techniques for writing to please children and tips for getting work published.

Register through Continuing Education, Room 160, Johnston Hall, Ext. 3956. O

How to make meetings more meaningful

Whether you are a volunteer or professional in your field, chances are that meetings provide an important means of communicating with your fellow workers. A one-day workshop on "Effective Meeting Management" on campus will help make your meeting place an action place rather than a futile battleground.

The Oct. 7 workshop will be led by Prof. Mark Waldron, director of the University School of Part-Time Studies and Continuing Education. He will explain how to define objectives and prepare for meetings, and will discuss the role of the chairperson, parliamentary procedures, recordings, reporting and the essentials of group dynamics.

"An understanding of group dynamics is the key to managing a meeting effectively," says Waldron. A successful group leader will recognize the individual personalities and goals of the participants and allow them to add to, rather than detract from, the meeting objectives, he says.

Register through Continuing Education, Room 160, Johnston Hall, Ext. 3956. O

Want to learn to cope with stress?

Dr. Robert M. Bramson, known across North America as the author of *Effective Coping with Difficult People* and co-author of *Styles of Thinking* and *The Stressless Home*, will share his knowledge of behavior and managerial performance in a three-day seminar Oct. 15 to 17, organized by the Division of Continuing Education.

Bramson is also an authority on the prevention and management of difficult and nonproductive behavior and in methods for obtaining optimal individual performance from executives. His coping techniques can be applied to any group or individual situation to benefit family life, improve office relations or implement organizational objectives.

"Styles of Thinking," offered Oct. 15, will enable you to evaluate your own preferred style of thinking and compare its strengths to those of others. "Effective Coping With Difficult People," Oct. 16, will show you how to get along with the hostile co-worker, the indecisive manager and the overly agreeable client who doesn't do anything.

"The Stressless Home," Oct. 17, will be a practical and effective guide for restoring the comfort and tranquility of the home. Bramson and his wife, Susan, have taken the same methods they have developed over the years in helping various organizations improve performance and communication and have applied them to the home.

For more information or to register, contact Continuing Education, Room 160, Johnston Hall, Ext. 3956. O

How to think on your feet

Executives around the world have benefited from communication and reasoning strategies that are now available through the Division of Continuing Education. "Think on Your Feet" incorporates the media skills developed by Dr. Keith Spicer, Canada's first commissioner of official languages, with the teaching skills of Dr. John Priddle, a PhD in philosophy.

Enrolment in the personalized two-day seminar, which will be held Nov. 10 and 11 on campus, is limited to 15. Register by Oct. 9.

"Think on Your Feet" will provide techniques to help you organize ideas, get to the point and be remembered, whether you're addressing a group of one or 50, handling the media, communicating with staff, sitting on the witness stand or selling your business to a new client. The course provides 10 strategies you can practise daily to make sure your message matches your audience.

Register for any one or all three days at Continuing Education, Room 160, Johnston Hall, Ext. 3956. O

Something new in WordPerfect

The Division of Continuing Education has added something new to its lineup of microcomputing courses for fall '87. WordPerfect clinics, the first two in a series, will provide advanced training for those who are proficient in WordPerfect.

"Beyond the Basic Merge," offered Oct. 10 and Nov. 21, will explain how to use the merge function to assemble documents, produce reports and lists and do mathematical calculations on merged information. A second clinic, "Making the Macros Work For You," Oct. 24 and Dec. 5, will show you how to save time by making the macro do the work. Learn how to join macros and how to plan and custom design a macro to suit your needs.

The Saturday clinics will run from 9 a.m. to noon. Register early for these and other limited enrolment microcomputing courses:

Introduction to Lotus 1,2,3 — Oct. 3, Oct. 10 or three Tuesdays beginning Oct. 6; Intermediate Lotus 1,2,3 — Oct. 24 or three Tuesdays beginning Oct. 27; Advanced Lotus 1,2,3 — Nov. 7; Introduction to D-Base III — Oct. 10; Advanced D-Base III — Nov. 7; WordPerfect 1 — Sept. 26 or Oct. 17; WordPerfect 2 — Nov. 21 or Nov. 28; and Desktop Publishing — six Thursdays beginning Oct. 1.

Register through Continuing Education, Room 160, Johnston Hall, Ext. 3956. O

Our people

The Department of Animal and Poultry Science will hold a banquet Oct. 9 to recognize the achievements of Profs. **Ted Burnside** and **Jim Wilton**. Over the summer, Burnside received the J.L. Lush Breeding Award from the American Dairy Science Association and Wilton received the American Society of Animal Science Animal Breeding Award. Tickets for the banquet, which begins at 6:30 p.m. at the Cutten Club, are $12 and can be obtained from Prof. Gordon Bowman, Ext. 3648, Prof. Larry Schaeffer, Ext. 3645 or Moe Freeman, Semex Canada, 821-5060.

Coming events

THURSDAY, Sept. 24

Board of Governors - Meeting, 9:30 a.m., Boardroom, UC Level 4.
Lecture -*Noises Off* and *Jitters*: Two Comedies of Backstage Life," Albert-Reiner Glaap, 11:10 a.m., MacKinnon 233.
Pathology Seminar - "Veterinary Parasitology — Canadian Perspective," Owen Slocombe, 11:10 a.m., Pathology 220.
Concert - Monticello Trio, 12:10 and 1:10 p.m., MacKinnon 107, free.
Biology Seminar - "Migration and Human Adaptation," Michael Little, 1 p.m., J.D. MacLachlan 102.
Homecoming - Tours of OVC, 1:30 to 2:30 p.m.
Colloquium - "Social-Psychological Issues in Fetal Screening," Martin Richards, 3:30 p.m., FACS building 106.
Worship - Meet and Eat, noon, UC 335; Social Evening, Ecumenical Campus Ministry, 5 p.m., Mature Students Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Social Evening, Roman Catholic Ministry, 6 to 9 p.m., UC 335; Christian Coffee House, Great Commission Students, 7:30 p.m., UC 103.
Society for International Development - Annual General Meeting, 7:30 p.m., UC 442.

FRIDAY, Sept. 25

Worship - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Ecumenical Holy Communion, 1:10 p.m., Chapel.
Plant Sale - Canadian Crossroads International, 9 a.m. to 5 p.m., UC courtyard.
Liberal Arts Series - "Canada's Official Development Assistance Policies and Programs," Bill Winegard, noon, Animal Science 141.
Lecture - "Autonomy and Identity in Feminist Thinking," Jean Grimshaw, 3 p.m., MacKinnon 317.
Homecoming - Special OVC Convocation and 1987 Schofield Memorial Lecture, "The Animal Welfare Bête Noir in Veterinary Medicine," Franklin Loew, 3 p.m., War Mem Hall, tickets at Ext. 4401; Old-Time Creelman Dinner, 6:30 p.m., Creelman Hall; Student Leaders' Alumni Reception, 6:30 p.m., UC 103; Musical Revue, "VETS," 8:30 p.m., War Mem Hall.

SATURDAY, Sept. 26

Homecoming - Brunch, 10 a.m., Brass Taps; Homecoming Parade, 12:30 p.m., starting on campus; Football Game, Guelph vs Wilfrid Laurier, 2 p.m., Alumni stadium; All-You-Can-Eat Spaghetti Dinner, 4:30 to 6:30 p.m., PCH; BioBash Alumni Pub, 6 p.m., UC 103; Pub, 8 p.m., PCH.

SUNDAY, Sept. 27

Homecoming - Creelman Breakfast, 9 to 10:30 a.m., Creelman Hall.
Worship - Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry (Anglican, Presbyterian, United, Lutheran), 10:30 a.m., Chapel, UC Level 5.
Arboretum - Sunday Afternoon Walk, "Fall Birds," 2:30 p.m., J.C. Taylor Nature Centre.
Concert - Guelph Concert Band, 2:30 p.m., OAC Centennial Centre, The Arboretum, free.
Conference - "Questions of Peace and War," Guelph Committee Against Imperialist War Preparations, 3 p.m., Peter Clark Hall.
International Cinema - "Boat People," 8 p.m., MacNaughton 103.

MONDAY, Sept. 28

Alcohol Awareness Week - Displays, Breathalyser Test, Videos, University Centre courtyard, continues to Oct. 1.
Botany Seminar - "Evolution of Plant Breeding Systems," 3 p.m., Botany/Genetics/Zoology 117.
Worship - Catholic Mass, 5:10 p.m., Chapel, UC level 5.
Skills Training Series - "Agricultural and Rural Development in Nigeria," Development Education Program, 7 p.m., UC 332, $2.50.

TUESDAY, Sept. 29

CUSO - Information Table, 10:30 a.m. to 2:30 p.m., UC courtyard.
Discussion - "The Leaming Objectives: What do They Mean for My Teaching," noon, MacKinnon 132.
Worship - Roman Catholic Mass, 12:10 p.m., Chapel, UC Level 5; Bible Study, 7 p.m., UC 332; Inquiry into Catholicism, 4:10 p.m., Room 335, UC; Faithfully Curious, 5 p.m., UC 335.
Our World - "Environment in Developing Countries," 12:10 p.m., UC 442.
Physics Seminar - "The Magnetic Properties of High Tc Superconducting Oxides," Bozidar Mitrovic, 4 p.m., MacNaughton 113.

WEDNESDAY, Sept. 30

Concert - Paul James, noon, UC courtyard.
Biochemistry Seminar - "Are There Microtubules in Death Valley? An Investigation," Robert Keates, 12:10 p.m., MacNaughton 222.
Worship - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5; Great Commission Students fellowship meeting, 763-1282 for more information.
Botany Seminar - "Methotrexate Resistance as a Marker in Plant Somatic Cell Genetics," 3 p.m., Botany/Genetics/Zoology 117.
Faculty Club - Annual General Meeting, 5 p.m., Faculty Club, UC Level 5.
CUSO - Information Meeting, 7:30 p.m., UC 334.
Speaker Series - "The Secret Wars of the CIA," John Stockwell, 7:30 p.m., War Mem Hall, $6 general, $5 students.
Lecture - "Children and Divorce," Martin Richards, 8 p.m., MacNaughton 105.

THURSDAY, Oct. 1

Instructional Development Workshop - Students' Intellectual Development," 10 a.m. to noon, MacKinnon 132.
Worship - Meet and Eat, noon, University Centre 335; Social Evening, Ecumenical Campus Ministry, 5 p.m., Mature Students Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Social Evening, Roman Catholic Ministry, 6 to 9 p.m., UC 335; Christian Coffee House, Great Commission Students, 7:30 p.m., UC 103.
Concert - Paul Bempechat, piano, 12:10 and 1:10 p.m., MacKinnon 107, free.
Biology Seminar - "Fibre Optics in Biological Research," Howard Swatland, 1 p.m., J.D. MacLachlan 102.
Gerontology Student Association - An Evening With Robert McClure, 8 p.m., Creelman Hall, $5 general, $3 students and seniors.

FRIDAY, Oct. 2

Plant Sale - FACS '90, 9 a.m. to 4 p.m., UC courtyard.
Convocation - 10 a.m. and 2:30 p.m., War Mem Hall; convocation teas to follow in Peter Clark Hall.
Worship - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Ecumenical Holy Communion, 1:10 p.m., Chapel, UC Level 5.

SATURDAY, Oct. 3

Skills Training Series - "Green Revolution Game," 9:30 a.m. to 4 p.m., HAFA 311, pre-registration required, $2.50
Football - Guelph vs Windsor, 2 p.m., Alumni Stadium.

SUNDAY, Oct. 4

Worship - Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry, 10:30 a.m., Chapel, UC Level 5; Great Commission International, 11 a.m., MacNaughton 105.
Arboretum - Sunday Afternoon Walk, "Poems for Fall," 2:30 p.m., J.C. Taylor Nature Centre.

MONDAY, Oct. 5

Liberal Arts Series - "Missing Link in Development: Prescription Without Diagnosis?" Jorge Nef, noon, UC 103.
Botany Seminar - "The Evolutionary Ecology of Fire-Successional Fungi," 3 p.m., Botany/Genetics/Zoology 117.
Worship - Roman Catholic Mass, 5:10 p.m., Chapel, UC level 5.
Skills Training Series - "Jamaica: Historical, Political and Economic Background," 7 to 10 p.m., UC 441, $2.50.

TUESDAY, Oct. 6

Plant Sale - FACS '88, 9 a.m. to 4 p.m., UC courtyard.
Discussion - "The Leaming Objectives: What do They Mean for My Teaching?" noon, MacKinnon 132.
Worship - Catholic Mass, 12:10 p.m., Chapel, UC Level 5; Inquiry into Catholicism, 4:10 p.m., Room 335, UC; Faithfully Curious, 5 p.m., UC 335.
Our World - "Hunger: Natural Solutions," 12:10 p.m., UC 442.
McLean Memorial Lecture - "Approaching the Uruguay Round of International Trade Negotiations," Robert Thompson, 8 p.m., J.D. MacLachlan 102.

WEDNESDAY, Oct. 7

Fashion Show - Establo Fashions, noon, UC courtyard.
Worship - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5; Great Commission Students fellowship meeting, 763-1282 for more information.
CUSO - Meeting, films, 7:30 p.m., UC 333.
Drama - "Another Season's Promise," 8 p.m., War Mem Hall, $9.50 to $11.50 general, $8.50 to $10.50 students and seniors.

THURSDAY, Oct. 8

Instructional Development Workshop - "What Constitutes an 'A' in My Course?" 10 a.m., Animal Science 141.
Worship - Meet and Eat, noon, University Centre 335; Social Evening, Ecumenical Campus Ministry (Anglican, United, Baptist and Lutheran), 5 p.m., Mature Students Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Social Evening, Roman Catholic Ministry, 6 to 9 p.m., UC 335; Christian Coffee House, Great Commission Students, 7:30 p.m., UC 103.
Concert - Trio Vivant, violin, cello and piano, 12:10 and 1:10 p.m., MacKinnon 107, free.
Biology Seminar - "The Mechanical Engineering of Plants: Is Nature a Better Engineer Than Man?" Karl Niklas, 1 p.m., J.D. MacLachlan building 102.
Skills Training Series - "Starting a Country Program," 7 to 10 p.m., UC 332, $2.50. and Sunday.

Ralph and Edith Kidd, centre, received special recognition Sept. 17 for their years of support to the Thursday noon-hour concert series. At left is Prof. Ed Phillips, chair of the Department of Music; at right is Dudley Gibbs, concert manager.
Photo by John Majorossy, Photographic Services

Graduate News

The following graduate students have successfully defended their final PhD oral examinations and will graduate at fall convocation:

Cynthia Commachio Abeele, History. whose final thesis title is "Nations are Built of Babies: Maternal and Child Welfare in Ontario, 1914 to 1940"; Gary Richard Ablett, Crop Science, "Agronomic Performance on Indeterminate, Semideterminate and Determinate Soybeans, *Glycine max* L. Merr; Wanchai De-Eknamkul, Chemistry and Biochemistry, "Rosmarinic Acid Production in *Anchusa officinalis* Cell Cultures"; Jeffrey Allen Erf, Horticultural Science, "Cropping and Environmental Effects on Incremental Vegetative Growth of Apple"; James William Angus Grant, Zoology, "Foraging Tactics and Social Behavior of Young-of-the-Year Brook Charr, Salvelinus fontinalis": John Maxwell Gunn, Zoology, "The Role of Episodic Acidification in the Extinction of Lake Charr (*Salvelinus namaycush*) Populations"; Judy Lynn Keys, Animal and Poultry Science, "Structural Changes in Porcine Uterine Epithelium During the Estrous Cycle, Early Pregnancy and Pseudopregnancy"; Peter William Kleinstiver, Biomedical Sciences, "Adrenoceptor Function in Calves Following *Pasteurella haemolytica* Exotoxin Infusion;" Monique Leclerc, Land Resource Science, "Turbulence and Turbulent Diffusion Inside and Above Vegetation"; Lena Measures, Zoology, Epizootiology, Transmission and Pathogenicity of *Eustrongylides tubifex* (Dioctophymatoidea) in Piscivorous Birds"; Yousef Azar Papadopoulos, Crop Science, "Genetics and Breeding of Resistance to Verticillium Albo-Atrum Reinke and Berth. in Alfalfa (Medicago sativa L.)"; Phyllis Grace Paterson, Nutritonal Sciences, "The Effect of Dietary Zinc Deficiency on the Structure and Function of the Rat Erythrocyte membrane"; Richard Stuart Spratt, Animal and Poultry Science, "Studies on the Utilization of Dietary Energy by Broiler Breeder Hens": Jeffrey Grant Stewart, Environmental Biology, "Economic Impact of the Imported Cabbageworm, Cabbage Looper and Diamondback Moth on Cauliflower in Southern Ontario"; Bernadine Strik, Horticultural Science, "Photosynthesis, Yield Component Analysis and Growth Analysis of Strawberry": Tony John Vyn, Crop Science, "Crop Sequence and Conservation Tillage Effects on Soil Structure and Corn Production"; and Bonnie Joy Weaver, Nutritional Sciences, "Metabolism of Eicosapentaenoic Acid Relative to Arachidonic Acid in Phospholipids of Human Platelets."

The following student has successfully defended his final D.V.Sc. oral examination and will graduate at fall convocation:

Jeffrey Boyd Wilson, Pathology, whose major paper is entitled "Lesions of Right Heart Failure and Ascites in Broiler Chickens." ○

Our people

President Burt Matthews invites faculty, staff and students to attend a wine and cheese reception in honor of Dr. Janet Wardlaw on her retirement as associate vice-president, academic. The reception is Sept. 29 from 4 to 6 p.m. in the Faculty Club.

Briefly

Computing help available

Assistance with computing and electronic communications problems is now available at the Computing Services consultant's desk on the main floor of the McLaughlin Library. Consulting hours are 8:30 a.m. to 9 p.m. Monday through Thursday, 8:30 a.m. to 5 p.m. Friday, and noon to 4:30 p.m. Saturday and Sunday.

Pianist performs

The Thursday noon-hour concert Oct. 1 will feature world-renowned pianist Paul Bempechat. He studied at the Manhattan School of Music and the Juilliard School, holds degrees in modern languages and is completing his doctorate in musicology and philosophy at the Sorbonne in Paris. He has performed and lectured throughout the world.

Program I at 12:10 p.m. in Music Room 107 of the MacKinnon building will consist of "Adagio in B minor, K. 540" by Mozart and "Sonata in C minor, D. 958" by Schubert. Program II at 1:10 p.m. will feature "Variations on an Original Theme, Opus 21," by Brahms and "Sonata in A Major, D. 959" by Schubert. Admission is free.

Take care of your back

The Occupational Health Department is again offering a preventive back exercise program this fall. It will be taught by Dr. John Powell. For more information, call Jean Wessman, Medical Services, Ext. 2133.

Meet and Eat

The University chaplains are sponsoring "Meet and Eat," a lunchtime fellowship series with special speakers Thursdays from noon to 2 p.m. in Room 335, University Centre. The theme of the series is "Faith, Intellect and Justice." Scheduled speakers include Prof. Sandy Middleton, Zoology (Oct. 1), Prof. Doug Morrison, Animal and Poultry Science (Oct. 15), and Connie Shaw, chaplain at the Guelph Correctional Centre (Oct. 29).

Self-defence classes

A Children's Ninjutsu Class, featuring traditional Oriental self-defence lessons, is being given by Master Sherman Lai at the Victoria Road Recreation Centre. Lai is also teaching classes in Vital Point Therapy — Oriental healing. Both classes are sponsored by the campus Ninjutsu Club. For more information, call 763-6340.

International society meets

The Society for International Development, Guelph chapter, will hold its annual general meeting Sept. 24 at 7:30 p.m. in Room 442, University Centre. Everyone is welcome.

Convocation parking

During OVC convocation Sept. 25 and fall convocation Oct. 2, parking lots P23/24 and P44 will be reserved for visitors. Alternate parking for regular users can be found in lots P7, P19 (front section), P17, P48 and P14/15. People with premium parking permits for P24 will be allowed to park in the designated premium parking zone.

What's new in biology?

The College of Biological Science's Thursday seminar series focusing on what's new in biological research continues Sept. 30 at 1 p.m. in Room 102 of the J.D. MacLachlan building with the topic "Fibre Optics in Biological Research." Guest speaker is Prof. Michael Little, Animal and Poultry Science.

Exchange with China

The Ontario-Jiangsu educational exchange agreement, between the Ontario Ministry of Colleges and Universities and the Higher Education Bureau of Jiangsu Province, China, is intended to encourage the exchange of students and faculty of post-secondary institutions in Ontario and Jiangsu. Participants must be Canadian citizens living in Ontario or whose normal residence is in Ontario. Deadline for applications, for either a short-term stay of up to three months next March to August or a long-term stay of a year or more beginning next September, is Nov. 15. For more information, call Susan James, Development Education Program, Ext. 6914, or contact the director of the Ontario-Jiangsu Educational Exchange Program, University of Toronto/York University, Joint Centre on Modern East Asia, 631A Spadina Ave., Toronto M5S 2H6, 416-978-7474.

Women, children march

Guelph's annual "Take Back the Night" march and celebration is June 26 at 7:30 p.m., beginning at St. George's Square. Take Back the Night marches take place every September throughout the world to protest all forms of violence against women and children. All women are welcome to join the march or volunteer their time. To register your child for child care or to volunteer, call 823-5806. A women's dance will follow at the Loft on Carden Street.

Series on childbirth

The Guelph Community Health Centre is sponsoring a three-part series on childbirth. Part I is "Childbirth in Our Community" Oct. 7. Representatives of the Guelph General Hospital will discuss present practices and future trends for childbirth locally, and a panel of women who provide instruction and support services for pregnant and birthing women in Guelph will explain their work and answer questions. On Oct. 14, two films exploring the birth experience — "Childbirth" by R.D. Laing and "Labors of Love," will be presented, with a discussion to follow. On Oct. 21, a member of the Guelph Midwifery Task Force and three local midwives will discuss midwifery, impending provincial legislation and the activities of the task force. All events begin at 7 p.m. at the Medical Health Centre, 73 Delhi St.

Open for business

The HAFA Restaurant opens for business Sept. 30 and will be open Wednesday to Friday from 11:45 to 1 p.m. throughout the fall. Both buffet service and dining room service are available. For dining room reservations, call Ext. 8116.

Ex-CIA official talks

Former CIA official John Stockwell, author of *In Search of Enemies*, will give a public lecture Sept. 30 at 7:30 p.m. in War Memorial Hall. He will speak on "The Secret Wars of the CIA: Vietnam to Nicaragua." The talk is sponsored by the Ontario Public Interest Research Group, the University Centre, the Central Student Association and *The Daily Mercury*. Tickets are $6 general, $5 for students and seniors, and can be purchased at the UC box office.

Stockwell will discuss his CIA career and outline his reasons for leaving the CIA after 13 years. During his career, he was CIA station chief in Africa, commander of the Angola Task Force, officer-in-charge of Tay Ninh Province, Vietnam, and recipient of the agency's Medal of Merit. He also sat on the National Security Council, the highest level of military strategy planning.

Gryphons honored

The Gryphon Club will induct seven people into its hall of fame Sept. 25 following a dinner at the Cutten Club. Two of the inductees — Fred Dunbar and Harry Brightwell — are being honored in large part for their contributions to Guelph football.

Dunbar, who is head trainer of the Toronto Argonauts, joined the Gryphons in 1969 as athletic trainer and was one of the driving forces behind the creation of the Human Kinetics Sports Medicine Symposium at Guelph. Brightwell, now an MP representing Stratford, played varsity football and wrestling during the 1950s and was the first recipient of the male athlete of the year award in 1956.

The other inductees are Dr. Alex Watt (wrestling/soccer), Wayne Brightwell (wrestling), Candy Clarkson (basketball) and Skip Phoenix (diving). Tickets for the induction dinner, which begins at 6:15 p.m., are $30 per person and are available at Ext. 6138.

Campus Canada

The University of Western Ontario has issued its own credit card, available only to UWO alumni, faculty and staff. The "Westerncard," which incorporates the university's crest and colors, is actually a Canada Trust MasterCard gold card. The university will receive funds from Canada Trust for each Westerncard issued and for each purchase made with the card.

The University of Moncton and the Canadian Workplace Automation Research Centre have signed a three-year agreement to conduct research on office automation and its impact on individuals, business and society. O

Guide to faculty

The Central Student Association is sending a questionnaire to all professors and instructors on campus to collect information for a students' faculty guide that will assist students in selecting courses and professors. The guide will contain a list of courses being offered, the names of instructors teaching each section and a listing of the professors and their responses to questions about teaching, expectations and student evaluation. Any faculty with questions or concerns about the proposed guide are invited to call Chris Moore, CSA vice-president, internal, at Ext. 6742.

Benefit shows planned

"Beare: A Celtic Odyssey," a multi-media dance theatre production written and choreographed by Allen Norris, will give two benefit performances Oct. 14 and 15 at 8 p.m. at Ross Hall. Cost is $10 for adults and $8 for seniors and students, with all proceeds going to the Guelph Community Health Centre. Tickets are available at the University Centre box office.

Concert band performs

Autumn Day in the Arboretum Sept. 27 features an appearance by the Guelph Concert Band. The concert begins at 2:30 p.m. in the OAC Centennial Centre. Admission is free.

Tour Belwood homes

St. John's United Church Women, Belwood, are sponsoring a tour of homes in Belwood and area Sept. 26 from noon to 5 p.m. Cost is $10. For tickets, call Ext. 2173 or 843-293

University guide

A Guide to Canadian Universities, written by Linda Frum, daughter of journalist Barbara Frum, hit the bookstores this month. Aimed at helping prospective students choose the "right" university, the book discusses academic programs, athletic facilities, social life and housing at 45 universities across the country.

Art display opens

The Marchesa Casati, a masterwork by Augustus John, will be on display at the Macdonald Stewart Art Centre from Sept. 25 to Oct. 18.

Winegard discusses development

The Liberal Education Series "Ethics in Global Development: For Whose Benefit?" continues Sept. 25 with a discussion of "Canada's Official Development Assistance Policies and Programs" by MP Bill Winegard. It begins at 12:10 p.m. in Room 141, Animal and Poultry Science. The next session in the series, which is sponsored by the Senate Advisory Committee on Liberal Education, is Oct. 5 at 12:10 p.m. in Room 103, University Centre. Prof. Jorge Nef, Political Studies, will discuss "Missing Link in Development: Prescription Without Diagnosis?"

Draw for the gallery

The Volunteer Committee of the Macdonald Stewart Art Centre is holding a reception and raffle Nov. 22 at 3:30 p.m. following a lecture by David Wislow of the Art Gallery of Ontario on "Fakes and Forgeries." Prizes include a lithograph by Ken Danby and gift certificates from a number of local businesses. Tickets at $5 go on sale Oct. 1 and are available at the centre and Gallery Shop or by calling 821-1786.

Burns essay contest

The London Ontario Robert Burns Club invites submissions from University of Guelph students for its annual essay award. The essays must be at least 3,000 words and discuss some aspect of the life, works and influence of Burns. The prize for the best undergraduate essay is $200, for the best postgraduate essay, $250. Undergraduates must be currently registered as full- or part-time students at the University; postgraduates must be currently registered or have been registered within 12 months of the submission date — Jan. 25, 1988. Essays must be submitted to Prof. Ted Cowan, Department of History, or Dr. Catherine Kerrigan, Department of English Language and Literature.

Our people

Dr. Dennis Howell, chair of Guelph International Development Consultants, has been elected to serve on the executive of the International Bio Sciences Network. The network promotes application of new knowledge and discovery in the life sciences to benefit the developing world. O

Job opportunities

As of *At Guelph* deadline Sept. 18, 1987, the following opportunities were available:

Secretary I, Population Medicine; two positions. Salary range: $276.64 minimum; $320.83 job rate (level 5); $385.08 maximum.

Laboratory Technician, Biomedical Sciences. Salary range: $353.20 minimum; $408.07 job rate (level 5); $506.70 maximum.

Research Technician, Biomedical Sciences. Salary range: $303.42 minimum; $350.66 job rate (level 5); $436.76 maximum.

Research Technician, Biomedical Sciences; grant position. Part-time to full-time, level III or IV.

Clerk II, Dean's Office, OVC; maternity leave from Nov. 16, 1987 to April 11, 1988. Normal hiring range: $303.42 to $328.71 per week.

The following positions were available to on-campus employees only:

Administrative Assistant I, Alumni Affairs Director — Development. Salary range: $363.19 minimum; $418.51 job rate (level 5); $517.87 maximum.

Clerk II, Media Production and Distribution. Salary range: $303.42 minimum; $350.66 job rate (level 5); $436.76 maximum.

Custodian 2, Housekeeping Department. Job rate: $10.27 per hour; probation rate: $ .20 per hour lower than job rate.

Kitchen Helper, Department of Food Services. Start rate: $5.89 per hour; job rate: $7.15 per hour.

Porter, Department of Food Services. Start rate: $7.63 per hour; job rate: $9.27 per hour.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, contact employment services and training, Level 5, University Centre, or call 836-4900.

Personals

For Sale: Gold rug, 11' x 15', and under rug, in good condition; railway ties, eight- and four-foot lengths; electric hair dryer; venetian blind, white and blue, 57 1/4 x 36 7/8", 822-5925, after 1:30 p.m. C-Itoh Y10-20 daisy wheel, letter-quality printer with tractor feed, 821-3523. 1981 Volvo GL, Ext. 4527 or 821-2584. House of Brougham trestle table with benches, dark pine, Ext. 3259 or 821-0153. 1981 Ford Granada, 47,000 miles, certified, 821-0944. Toyota Corolla wagon, five-speed, excellent condition, 821-9228, evenings.

Wanted: Farm assistant to care for animals and farmhouse in Rockwood in exchange for small one-bedroom apartment plus salary, 416-368-4048. Ride from Waterloo to Guelph and return, three to four days a week, will share expenses, 836-9885 or 1-884-5686. Two- or three-bedroom house or apartment to rent by Nov. 1 for professional couple, preferably close to main highways, 416-584-9692 or leave message at 763-5139. Electric typewriter in good condition, Ext. 3192 or 856-4902, evenings.

Available: Part-time employment for students interested in gaining poultry and beef cattle husbandry experience, mornings or afternoons, six days a week, vehicle required, call Donald McQueen Shaver, 623-4920.

For Rent: Spacious three-bedroom house, fireplace, private yard, $1,000 per month, 837-0912. Ranch bungalow, four bedrooms, two bathrooms, five appliances, two-car garage, 10 minutes from University by car, $1,000 per month.

"Personals" is a free service offered by At Guelph *for staff, faculty and students at the University. All items must be typed, double spaced, and submitted to* At Guelph *one week before publication.*

Follow the aims document, next president should be distinguished scholar, say faculty

About 50 people — most of them faculty — turned out for the open meeting of the selection committee for president Sept. 14. The meeting was called to let members of the University community give their views on the direction the University should be taking over the next decade and the qualities the committee should be looking for in the next president.

Their messages: they want the University to follow the direction outlined in *Toward 2000: Challenges and Responses. Aims and Objectives of the University of Guelph*, and they want the next president to be a distinguished scholar, a good communicator and a public champion of the university cause.

The selection committee, which has met with the two vice-presidents and the deans and has advertised the position externally, has already received nominations, said Edmund Bovey, committee chair. There is still time to make comments or nominations to the University secretariat; the deadline is Sept. 30.

Zoology professor Sandy Middleton, who opened the discussion, said the University has already decided the direction it must take — that was decided when Senate accepted *Toward 2000*. He hopes that the next president will be familiar with, and committed to, the aims of the University. Middleton said he also wants a president who will speak strongly for basic, curiosity-driven research and who understands university scholarship in its broadest sense.

Political Studies professor Henry Wiseman said the University needs a president who respects, encourages and supports pure research. The next president should also be someone who can go beyond the relevance of the day and who has a profound intellectual and personal appreciation for the sense of inquiry, research and educational practices of the University, he said.

Universities are being pushed to respond to the political and economic climate out there that says what they ought to do — serve society and train the future generations for jobs and a full life, said Wiseman. But their fundamental task is to challenge society, to question the system, to look into why we are doing what we are doing, and to look at some of the fundamental questions that people don't like, he said.

A president should be able to appreciate that and support those questions — even if he or she disagrees with what the questions are, said Wiseman. The University needs someone who can hold on to its priorities and resist the temptations and pressures from outside, he said.

Prof. Peter Brigg, English Language and Literature, said he would like a president who is a distinguished scholar with a strong commitment to teaching, and who understands what this institution is *for*.

Wiseman advocated a less formal selection process for senior executives. Meetings and papers are barriers, he said. "Let's hear from the candidates on their philosophy, visions and priorities."

Bovey said the committee has yet to decide if the selection process will be open or closed when the short list of candidates is developed. Some faculty said they wouldn't want an open competition and that they were sympathetic to the process the committee must follow; others said they wanted a short list to be presented at a University internal meeting, with comments going back from the University community to the selection committee.

Bovey also said the committee has not yet developed criteria for the incumbent. "We are looking to see what you want."

He said representations to the committee to date indicate there is a consensus that the aims and objectives are widely accepted, that the next president should relate well to the external community and that the person should be a distinguished scholar.

Philosophy professor John McMurtry said he does not favor a university run on big-business principles and he would want a president who does not "lose sight of the very purpose of the University."

Prof. Bill Hughes, Philosophy, said the University needs a president who can deal with internal matters in an intelligent and sensitive manner.

Ontario universities have a collective morale problem, said Hughes. University presidents have spoken publicly for their institutions in a defensive and apologetic manner, and the province needs presidents who have the stature and dynamism to take a public role, he said. Universities are seen by the public as drifting along with no clear sense of direction; they don't have presidents who can spell it out.

Hughes also acknowledged that there are limits on what any one president can do and that the University doesn't have the right to expect the selection committee to solve all the institution's problems.

Bovey said the selection committee has a difficult path to tread. On the one hand, the University wants a distinguished scholar, on the other it wants a dynamic person who will defend the rights of the University publicly and can deal effectively with government. "One wonders if such a person can be found," he said.

Speaking as a staff member, Gerry Quinn, director of Public Relations and Information, said the president should be an outstanding scholar, have a high profile externally and have strong communication and interpersonal skills.

Chaplain Art Menu, Counselling and Student Resource Centre, said the incumbent must take seriously the moral and spiritual development of students and have a broader vision of what a healthy and happy person can be in the educational process.

Christine Forber, a graduate chemistry student, said she wants a president who is seen and heard by students. She favored an open selection process so that everyone will know "there is a real person there who can be talked to."

Jim Ryan, president of the Central Student Association, said the University must not become elitist in its strive for greatness. "We must be accessible and affordable," he said.

Brigg said that if Guelph wants to have a great university here — and it won't be for 50 years or so — then it should base its short-term decisions on long-term goals.

Middleton said the University may be trying to build a world-class reputation too quickly. He said it's important that the new president understand that Guelph is not a great university yet, but a great-university-in-the-making. "That person must understand our strengths and how we are to build on them."

With Bovey at the meeting were committee members Bill Harris, Profs. Pat Gentry, Michael Ruse and Jack Tanner, Maureen Brown, Heather Gordon and Marjorie Millar. Unable to attend was Ian Murray. O

U.S. agriculture dean to give McLean lecture

Dr. Robert Thompson, dean of agriculture at Purdue University, will give the 1987 McLean Memorial Lecture Oct. 6 at 8 p.m. in Room 102, J.D. MacLachlan building. His topic is "Approaching the Uruguay Round of International Trade Negotiations."

Sponsored by Canada Packers, the annual lecture is organized by the Department of Agricultural Economics and Business. Prior to the lecture, Thompson will be presented with the Stewart Lane Commemorative Award.

Raised on a New York State dairy farm, Thompson received his B.Sc. from Cornell University and his M.Sc. and PhD from Purdue. He has been a professor of agricultural economics at Purdue since 1974 and became dean of agriculture last year. His principal areas of work have been in agricultural trade policy, U.S. agricultural policy and world agricultural development.

From 1968 to 1970, Thompson served with agricultural extension and research services in Laos as a volunteer, and in 1972 and 1973, he was a visiting professor at the Federal University of Vicosa in Brazil. He has been a visiting professor in the international economics division of the United States Department of Agriculture's economics research service (1979 to 1980), a senior staff economist for food and agriculture on the President's Council of Economic Advisers (1983 to 1985) and the USDA's assistant secretary for economics (1985 to 1987).

In 1982, Thompson was the first recipient of Purdue's Agricultural Research Award, given each year for outstanding cumulative research contributions for the past 10 years. He is the author of more than 90 research and popular publications. O

Winegard Professor to speak on children and divorce

Children and divorce is the subject of a Sept. 30 lecture by Martin Richards of the University of Cambridge, England, who is Winegard visiting professor in FACS. His talk begins at 8 p.m. in Room 105, MacNaughton building.

Richards is head of the child care and development group at Cambridge, where he has worked for 20 years on parent-child relationships and aspects of developmental psychology. He is currently working on a Penguin book on fathers and fatherhood, a book on children, marriage and divorce, and a series on family life.

His recent research includes studies on the effects of divorce on children and the development and influence of the legal system in divorce cases. Papers on this subject have included such topics as developmental psychology and family law and post-divorce arrangements for children, from a psychological perspective.

Richards is also involved in studies of British maternity services, changing patterns of childbearing and child-rearing and social relationships during infancy. He is co-editor of *Children in Social Worlds: Development in a Social Context* and co-author of *Divorce Matters*.

The Winegard visiting professorships, established in 1975 by the Alma Mater Fund advisory council on a proposal by Prof. Keith Ronald, now director of The Arboretum, rotate among the seven colleges.

Richards will be visiting the College of Family and Consumer Studies until Oct. 2. He can be reached through Prof. Margaret McKim at Ext. 2407. O

WELCOME BACK!

Welcome home!

Hundreds of University of Guelph graduates will find their way home this weekend to help celebrate Homecoming Weekend.

OVC is taking advantage of the Homecoming momentum to mount a celebration of its 125th anniversary. A conference for practising veterinarians begins today; tomorrow there is a special convocation and the annual Schofield Lecture, followed by an old-time dinner in Creelman Hall and a musical revue at War Memorial Hall.

A number of colleges and schools will hold reunions, barbecues and receptions throughout the weekend to make their alumni and new students feel at home.

The annual Homecoming Parade begins on campus Saturday at 12:30 p.m. followed by the football game at 2 p.m. in Alumni Stadium. At half-time during the Guelph-Wilfrid Laurier match, the winning ticket will be drawn for the red Corvette, first prize in the Department of Alumni Affairs and Development's fund-raising contest for *The Campaign*.

For details of other Homecoming activities, see "Coming Events" in this issue. O

Vol. 6 of *Science Corner* columns now off the presses

Profs. Nigel Bunce, Chemistry and Biochemistry, and Jim Hunt, Physics, have been collaborating since 1976 on "Science Corner" — columns about various aspects of science that are published in the Guelph *Daily Mercury* and more than 20 other newspapers across the province.

It all started as a way of bringing science to the public, says Bunce. "I don't think the general public has much appreciation of science," he says, "and I think there is a need for scientists to keep the public informed."

To do that, the Department of Chemistry had tried open lectures, but that wasn't too successful, says Bunce. So when Prof. Ed Janzen mentioned the newspaper column idea, which he'd seen used in Georgia, the department decided to give it a try.

Hunt and Bunce collaborate on four columns a month, writing two each, with Bunce concentrating more on chemistry and Hunt on physics and astronomy. They don't limit the columns to specific disciplines, however, and both write about topics they find interesting, even offbeat.

Letters from readers indicate that the columns do fill a need, says Hunt. A column on lightning, for example, brought many letters from people telling of their own experiences with lightning and expressing appreciation for a down-to-earth explanation. Any discussion of evolution also brings a wide reader response, says Hunt. "So we know the columns are being read."

In 1981, the College of Physical Science liaison committee suggested binding the columns in thematic volumes, such as *Physics and Chemistry in Medicine and Biology*. Volume 6, just off the presses, has "Technology" as its theme.

"These volumes seem to fill a need for science in lay language," says Prof. Ernie McFarland, physics liaison co-ordinator. About 2,000 of each volume have been distributed, he says, and more than 300 people are on the mailing list to receive each new issue automatically. They go to every province, to many U.S. states and as far away as Australia, Ghana and Malaysia. Science teachers are enthusiastic about these bound volumes, partly because scientific information at the high school level is usually about 10 years old, he says.

The volumes are advertised in Ontario science teachers' publications and the $2 cost makes them readily accessible, says McFarland. Although costs are rising, the college hopes it can continue to offer the volumes at a reasonable price. O

Cover photo: *Penetrating the mist outside Alumni House are six ornate light standards — a gift from the OAC Class of '38 in celebration of its 50th anniversary. The tarnished copper look of the coach lights is appropriate to the night and to the architectural style of the building, which was originally the carriage house for the President's House (circa 1882). Members of the Class of '38 donated $11,000 to the project, providing one of the priority items on the Alumni House "needs" list. A donor board presented by the OAC Class of '62 will recognize the individual alumni and classes who have contributed ta the renovation of the building and its furnishings.*

Photo by John Majorossy, Photographic Services

Staff development opportunities offered

The employment services and training office in Personnel offers employees a full slate of staff development opportunities this fall. All but one of the courses are offered on a first-come, first-served basis, with registration beginning Oct. 1. Enrolment in all courses is limited; register by calling Ext. 3059 or 6598. Workshop costs are supported by Personnel.

Media training workshop

Presented in co-operation with the Department of Public Relations and Information, this one-day workshop Oct. 29 is a chance for faculty and administrators who represent the University in the media to become more comfortable in interviews with the print, radio and television media.

Participants will learn who the media are, how they work, what they want, and how to prepare for interviews to get the intended message across. Patricia Adams, president of Tri-Com, a Toronto communications consulting firm, will lead the workshop.

Adams, who has a background in journalism and broadcasting and developed the first electronic media training course in Canada, has trained public and private sector spokespersons, including politicians.

Problem solving, decision making and planning

This all-day workshop Nov. 25 is for academic administrators, managers and supervisors, to improve their understanding and skills related to problem solving; decision making and planning. Group discussions, lectures and group exercises will be led by Stephen Baetz, a management consultant and group facilitator who has experience in the private and public sectors. Principal of LIVE Consultants Inc., Baetz is associated with the Waterloo Management Education Centre.

Customer/client relations

This one-day program Nov. 2 is for employees at all levels at the University who are responsible for internal or external customer/client relations with students, the public, funding agencies and internal departments. The course will help participants understand what the customer or client is looking for and how to satisfy those needs. It will also provide tips and techniques to make the most of customer/client relations that result in "personalized service."

Building effective work teams

This one-day seminar Nov. 27 focuses on the "how to's" of team building — how to communicate, get through to people, develop a sense of co-operation, encourage commitment and offer feedback that changes behavior. Baetz will lead the group through discussions, lectures and group exercises.

Telephone courtesy

This morning seminar Oct. 28 is for those who frequently answer telephones and, therefore, help shape the University's image — secretaries, clerks and receptionists. Participants will learn how to improve their telephone manner and how to use the University's voice/data communication system effectively. Trudy Butler of INFO PRO, a consulting and training division of Bell Canada, and Brenda Morrison of Communications Services, are the instructors.

Career planning/goal setting for women

This is a one-day workshop for women to develop and implement a personalized career plan. Participants will get an introduction to career planning concepts, will learn how to appraise their interests, values, strengths, abilities, skills and behavioral qualities, will explore career options, set career goals and objectives, and will identify resources within the University and the outside external community to help them meet their career objectives.

Lectures, group discussions and individual exercises will be held under the instruction of Dr. Lynda Pinnington, a partner of Pinnington Associates, a Cambridge-based consulting firm that focuses on applied productivity improvement techniques. The workshop is Nov. 17.

Preventing animal-derived diseases in people

This morning seminar Oct. 15 is for employees who may be exposed, directly or indirectly, to animals harboring infections transmissible to humans. The instructors are John Campbell, occupational health and safety officer, Safety and Security Department; Prof. John Prescott, Veterinary Microbiology and Immunology, a member of the biohazards committee; and Dr. John Millman, occupational health physician, Medical Services.

The seminar will cover principles of infection control and examples of zoonotic diseases to which staff may be exposed. Medical surveillance programs and University polices and programs on zoonotic disease control will be outlined.

Resume writing

An afternoon workshop on resume writing and interview preparation will be given Oct. 19 by David Brown, assistant manager, employment services and training. The workshop will address the importance of good resumes and thorough interview preparation in the pursuit of career advancement. Participants will lean how to write informative resumes and how to function effectively during interviews. This is a course for support staff who want to further their careers, particularly within the University.

Employment interviewing skills

This is a one-day workshop Nov. 19 for managers, supervisors and those responsible for interviewing and selecting job candidates. Cal Swegles, manager, employment services and training, will lead the workshop, covering such topics as human rights legislation, preparing for the interview, stages of the interview process, approaches to interview design, questioning techniques, major interviewing errors and selecting the best candidate.

Financial planning for retirement

This workshop is for faculty and staff and their spouses who want to begin financial planning for retirement. Dr. Kathleen Brown, a recently retired faculty member in the Department of Family Studes, and author of *Personal Finance for Canadians*, will lead the series, accompanied by various guest experts.

Three afternoon sessions Oct. 9, 16 and 30 will answer the questions: "What will your financial situation be after retirement?" "How can you increase your retirement income?" "Are you paying too much income tax?" and "What will happen to your financial affairs after you are gone?"

Cardio-pulmonary resuscitation

This course on basic emergency life-support skills will be conducted at the heart-saver level; participants who successfully complete it will get an Ontario Heart Foundation certificate. Norm Hinds, chief, fire division, Safety and Security, will give the course, which consists of brief lectures, films and skills development using life-support mannequins. The dates are Nov. 2, 3, 4, 5 and 6 from 8:30 a.m. to 12:30 p.m. ○

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UNIVERSITY of GUELPH

A... Guelph

Volume 31 Number 29 September 30, 1987

Cover: *Dancing "horses" in the skit "The End of the Horse," in OVC's musical revue "VETS." The musical tribute to OVC's 125 years, written and directed by David Archibald, received a standing ovation from a full house Sept. 25.*

Photo by Margaret Chalmers, OVC Media

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- To the AGO, from Helen Dow 4
- OVC whoops it up 8

UNIVERSITY of GUELPH

At Guelph

One step closer to campus child-care centre

At its Sept. 24 meeting, Board of Governors approved the *Building Program and Brief to the Architect* for the proposed $1.4-million child-care centre on campus.

The brief proposes that a one-storey, 10,800-square-foot building be erected on property owned by the University on the northeast corner of East Ring Road between the new Alumni House and the building that houses the School of Human Biology.

To be called the University of Guelph Child-Care Centre, the facility is intended to provide care for 103 children who have a parent or parents working or studying on campus.

President Burt Matthews said discussions are under way with the provincial Ministry of Community and Social Services (ComSoc) to obtain funding. "We have reason to believe the project is viable financially," he told the Board. "I sense now that this project is more than just a dream — we can make this a reality." He said ComSoc sees this project as a precedent to demonstrate what can be done at universities.

The Campus Child-Care Co-operative of Guelph, which now accommodates 34 children in a University-owned house on Gordon Street, would continue to function, said Matthews.

Al Brown, director of Physical Resources, told the board that the next step after funding is secured is to ask the architect to develop a building design, which then must be approved by the board and ComSoc. If everything proceeds smoothly — and there are lots of approvals required by ComSoc before the building is opened, said Brown — the centre would be in operation by September 1988.

BofG members lauded the University's commitment to child care. Bernard Ostry said the centre was an excellent move on the part of the institution.

The building program says the University has recognized the need for child care to provide a happy, homelike environment for children while their parents work or study on campus. The University has an opportunity to develop a child-care program that is unique within the local community because of the many resources available to it within the institution, the brief says. These would serve to enhance the children's learning experiences.

Under the supervision of trained staff, children are to have play experiences designed to stimulate physical, emotional, social and cognitive development, says the brief. Through investigation and exploration, the children will be challenged to develop at their own pace within a trusted, safe environment.

High standards of safety and health are to be maintained at all times, says the brief. In addition, "a child will be grouped with a small number of others, whenever possible, so that the qualities of good citizenship, such as co-operation, consideration for others and acceptance of responsiblity, can be encouraged."

The programs are to be designed to enable all children to develop their full potential, regardless of sex or race, and stereotyping is to be avoided. Handicapped children are to be integrated into the programs to the extent that the centre is able to provide for their special needs.

The centre's staff is to encourage self-direction and self-reliance, says the brief. Emphasis is to be placed upon individualization in the program to encourage the development of positive self-concept. Parents are to be viewed as vital to their children's success in the program, and they will enter into a unique partnership with the staff when their child enrols in the centre, the brief says.

Observation booths in the centre will let parents observe their children without disturbing the group, and there is to be an outreach program to give support, especially to new parents. Parents are also to serve on the centre's governing board.

The centre is also to make use of such campus resources as The Arboretum and the Athletics Centre. Co-operative opportunities with academic programs such as drama, family studies, music and fine art will be encouraged.

Space for children will be allocated as follows: nine spaces for infants three months to 18 months; 30 for toddlers, 18 montbs to 2 1/2 years; and 64 for preschoolers, 2 1/2 to 6 years. Two infants aged six to 12 weeks may be admitted at the discretion of the supervisor. Four spaces will also be provided for disabled children.

The centre will aim to be operating at full capacity within four or five months of opening. After that, the priority will be to keep it at capacity at all times. If space is available and no University parent wants it, the centre will accept children who are not affiliated with the University in the preschool program only, says the brief.

When there is a waiting list, priority will be given to families currently in the centre who want a schedule change, families who have withdrawn for a short period because of illness, maternity leave or study and research leave, and families where siblings are already in the centre.

Some 23 people will be required to staff the centre — three teachers of infants, six teachers of toddlers, eight preschool teachers, one each of cook, cook/housekeeper, bookkeeper/secretary, custodian, supervisor and assistant supervisor.

The centre would be open from 7:30 a.m. to 5:30 p.m., Monday through Friday.

An advisory service, with a full-time child-care adviser, would be established to provide information to parents concerning off-campus child-care services. This will help parents who cannot be served adequately by the centre, says the brief.

The site for the proposed building is away from a high traffic area, but reasonably close to the central campus. It is on a bus route, and large enough to provide adequate parking.

The building program brief calls for separate playground areas for infants, toddlers and preschoolers, designed so that toddlers and preschoolers can see each other — particularly important for siblings who are in different groups.

The building committee recommends a warm, bright, open and fun place that has an inviting atmosphere and is accessible to parents. There would be a reception area for parents and visitors that would also provide some security from strangers.

The brief says the interior of the building must be flexible, with room size and set-up varied to accommodate small children's groups and the needs of the disabled.

In other business, Board of Governors asked its financial committee to review the University's analysis of the Canadian Universities Reciprocal Insurance Exchange Program (CURIE) and, if appropriate, approve the University's participation in it.

Charles Ferguson, vice-president, administration, said the University decided to look at a pooled approach to insurance risk because over the past few years, universities have been faced with higher insurance premium costs and increased risk exposure because of the difficulty in obtaining coverage. This year, the University's liability premiums increased by 36 per cent over 1986, he said.

By joining CURIE, the University could reduce its annual $400,000 insurance premiums on liability and property by 25 per cent and get better coverage in all areas, he said.

The idea of sharing insurance risks is supported by almost all of the 48 Canadian universities that participated in a preliminary study on the subject, said Ferguson. The study examined models implemented by Ontario school boards and major hospitals, by SCUUL, which provides liability insurance to U.S. colleges, and by another risk retention group that provides coverage to many American universities.

CURIE would come into existence Jan. 1, 1988, if the majority of Canadian universities decide to participate by Nov. 15. The initial commitment would be for five years, said Ferguson.

Matthews informed the board that the University intends to become more active in finding new tenants for its research park.

Brown said building committees are now preparing programs for the environmental biology/horticulture building and the athletics facilities. These are expected to be finished by the end of this year, he said.

BofG also accepted the financial statements of the University and the University Centre for 1986/87 and appointed Clarkson, Gordon as the University's external auditors for 1987/88 at a fee not to exceed $73,500. ○

Fall convocation is Oct. 2

A total of 464 degrees and diplomas will be conferred on graduates at fall convocation Oct. 2. Honorary degrees will be presented to historian Sydney Wise, dean of graduate studies at Carleton University, and biochemist David Idler of Memorial University, Newfoundland. Retired English Language and Literature professor Alexander Ross will be named professor emeritus.

Idler, who is professor of biochemistry at the Marine Sciences Research Laboratory at Memorial, will address the graduands and receive an honorary doctor of science degree during morning convocation, which begins at 10 a.m. in War Memorial Hall. Degrees and diplomas will be presented to graduates of the doctor of philosophy, doctor of veterinary science, master of arts, master of science, master of landscape architecture, graduate diploma, bachelor of science, bachelor of science in human kinetics, bachelor of applied science and bachelor of commerce programs.

Wise, who has been on faculty at Carleton since 1973 and dean of graduate studies since 1981, will give the convocation address and receive an honorary doctor of arts degree at the afternoon ceremony at 2:30 p.m. Degrees will be presented to graduates of the bachelor of arts, bachelor of science in agriculture, bachelor of science in engineering, bachelor of landscape architecture, associate diploma in agriculture and doctor of veterinary medicine programs.

Ross, who played a major role in establishing the department of English at the newly created University in 1964 and served as its chair until 1974, will be named professor emeritus at afternoon convocation.

Robing up is in the Red Lounge of the MacKinnon building. If it is raining, robing up will take place in the basement of War Memorial Hall. After each ceremony, there will be a tea for graduates and their guests in Peter Clark Hall. ○

The United Way flag is hoisted in front of the University Centre to signal that October is compus appeal month. The University's gool is $110,510, and canvossers will be contacting you Oct. 8 to 23. Left to right: Don McIntosh, chair of the compus appeol, Robin-Lee Norris, 1987 campaign chair, and President Burt Matthews.

Photo by John Majorossy, Photographic Services

Autumn glory for Homecoming

Guelph basked in brilliant autumn colors for Homecoming last weekend as close to 7,000 people turned out for the annual Homecoming football game.

There were two big winners during the game — the Wilfrid Laurier Golden Hawks, who defeated the Gryphons 37 to 18, and Margaret Roszell of Chatham, who won the grand prize in the Department of Alumni Affairs and Development's fund-raising raffle — a 1985 red Corvette. The draw for the car, which was donated by George Morris, a retired farmer from Kent County, was held at halftime during the game.

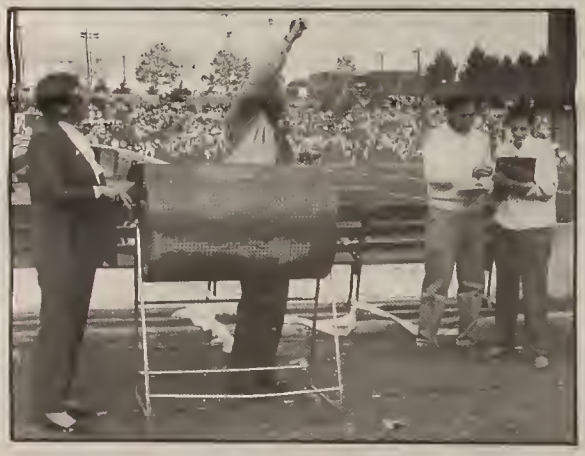
Second prize of a trip for two to Rio de Janeiro went to John Valsamis of 40 Vanier Dr., Guelph. The trip was donated by Canadian Airlines International.

Brian Kelly of 372 Woolwich St., Guelph, won $1,000 cash, donated by Bob Skipper of Kent County.

Mario Venditti of 21 Sagewood Dr., Guelph, won a $600 shopping spree at the Eaton's Centre in Guelph, and Jack Waye of Hamilton won a $500 shopping spree at Stone Road Mall.

The raffle raised more than $43,000 towards the University's capital campaign. Campaign projects include several buildings, research equipment scholarships and endowed professorships.

Homecoming activities also included the induction of seven people into the Gryphon Club's hall of fame: Fred Dunbar, former athletic trainer for the Gryphons and one of the driving forces behind the creation of the Human Kinetics Sports Medicine Symposium at Guelph; Dr. Harry Brightwell, OAC '52 and OVC '56, first recipient of Guelph's male athlete of the year award in 1956; Dr. Alex Watt, OAC '31 and OVC '35 (deceased), former member of OVC boxing and wrestling teams; Wayne Brightwell, CPS '82, wrestling; Candy Clarkson, FACS '81, basketball; Skip Phoenix, CBS '70, diving and track and field; and Helen Stewart (deceased), a physical educator involved in the development of women's intercollegiate sports.



At Guelph

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Views and opinions contained herein do not necessarily reflect official University policy. Letters to the editor, opinions, news items and other submissions are welcome. Deadline is seven days before date of issue unless otherwise specified. Stories may be reprinted with acknowledgement of source.

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Faster delivery of *At Guelph*

From now on you will receive *At Guelph* on Wednesday — one day earlier than in the past — thanks to faster turnaround time at our printer because of the new format. The change will be reflected in "Coming Events," which will now include items from Wednesday to Wednesday, but the deadline for submission of articles remains the same — Thursday at noon. ○

Butler returns to OVC to chair a redefined department

The Department of Clinical Studies has become a more manageable and clearly defined unit following the split that created the new Department of Population Medicine, says the new chair of Clinical Studies, Dr. Daniel Butler.

The split allows Clinical Studies to concentrate its teaching and research on small and large animal medicine and surgery, anesthesiology and radiology, he says.

A former OVC faculty member, Butler returned from the United States to assume his new position Sept. 1. His plans for the department include more research use of cases coming through OVC's veterinary medical teaching hospital. He says faculty could more actively recruit appropriate cases for evaluating diagnostic and therapeutic procedures for the characterization of diseases. Clinical teaching, especially in the undergraduate's senior year, could take better advantage of the learning opportunities afforded by cases coming into the hospital, he says. For example, students could compare the effectiveness of different treatments for the same disease.

Butler also sees the need for a continued curriculum review with a broad perspective, a concern he says is shared by faculty in veterinary schools across North America. The amount of material a veterinary student must absorb before graduation is immense and increasing yearly with new developments in medicine, says Butler. He believes faculty must identify essential core material and develop new and innovative ways of exposing students to this material so they become lifelong learners and don't burn out."

Butler says the goal of effective teaching should be to produce graduates who are problem solvers, prepared for the many career opportunities available to veterinarians. Apart from private practices, vets are finding jobs in the pharmaceutical industry, public health, regulatory medicine, zoo animal medicine and medical research.

The new chair plans to stress the importance of citizenship among his faculty, encouraging concern and involvement with the needs of society. He wants his department to be a fully functional citizen within the University community.

Butler received his DVM from OVC. After working in private practice for several years, he returned to Guelph to do his M.Sc., and later completed a PhD at the University of Toronto.

A faculty member in OVC for 17 years, Butler spent the past five years as chair of the department of medical sciences of the University of Wisconsin School of Veterinary Medicine. His main area of interest is gastroenterology, especially bovine infectious diseases. O

Raymone Tai, a first-year student in the Department of Computing and Information Science, is congratulated by CPS Dean Iain Campbell, right, CIS chair Jay Majithia, second from left, and Prof. Allan Dyer for his second-place finish in the department's 1987 high school software development contest. While a student at Timmins High and Vocational School, Tai designed an assembler program that earned him a $1,000 fellowship to Guelph and a plaque commemorating his achievement. The annual competition is open to high school students across Ontario and has attracted the support of the computing industry by stimulating interest in computing science outside the classroom, says Dyer, one of the contest organizers.

Photo by John Majorossy, Photographic Services

Our people

Ted Carter, manager of Photographic Services, was appointed president of the University Photographers Association of America at its annual conference at Brigham Young University in Utah.

OAC expands computer courses

OAC has expanded its introductory non-credit computer literacy courses. In addition to the basic program, there is now a second level of courses aimed at graduate students. There is no charge for any of these courses. For more information or to register, call Ext. 6514.

Basic courses:

Title	Length	Date
Intro to SAS	10 hrs.	Sept. 30
Intro to Lotus 1-2-3	4 hrs.	Oct. 1
Intro to Fortran	10 hrs.	Oct. 8
Accessing library databases	2 hrs.	Oct. 8
Intro to WordPerfect	6 hrs.	Oct. 13
Intro to DBASE III	4 hrs.	Oct. 22
Advanced DBASE III	2 hrs.	Nov. 3
Intro to scientific computing	2 hrs.	Nov. 5
Show and Tell	2 hrs.	Nov. 10

Although there are no restrictions on who can attend the second level of courses, they are intended primarily for graduate students.

"Linear Programming" is nine hours and begins Oct. 14. "Techniques of Numerical Analysis" is 10 hours and begins Oct. 28. "Slide and Hard-Copy Graphics on the Microcomputer Using Lotus Freelance Plus" is three hours and is offered Nov. 3 and 4. A six-hour course on "Using SAS for Statistical Analysis" begins Nov. 10. O

Nightingale charts new directions for HAFA

What's important to the customer is important to the hospitality manager, but it's not always easy to get the quality of service just right. Prof. Michael Nightingale, the new director of the School of Hotel and Food Administration, hopes to develop a course on service quality for the school.

Known for his research in service quality management, Nightingale was attracted to Guelph by HAFA's reputation and the University's respect for the hospitality discipline. He left his job as a management consultant in the United Kingdom to assume his new post in late July.

Nightingale says there are a number of new directions open to HAFA, including tourism and retail management, and he hopes his experience and the fresh outlook he brings to the job will help in choosing the right options.

With eight people seeking admission for every place available in HAFA, recruitment is no problem for the school, and the calibre of students is high, says Nightingale. Graduates also have no problem finding jobs in the growing hospitality industry.

Nightingale sees his task as one of picking directions that match most closely with the resources already available on campus. "With 400 students enrolled, the school is operating at capacity and there is some concern about a lack of physical resources to permit further growth," he says.

One option open to HAFA is the development of a master's program. Although the school has a great tradition of writing case studies, and Nightingale is impressed with the Advanced Management Program for the Hospitality Industry, he sees a need to expand the kind of research activity that can be linked to graduate studies.

After qualifying at Westminster Hotel School in London, England, Nightingale completed an M.Phil. in the department of management studies for tourism and hotel industries at the University of Surrey. He taught food and beverage operations and lodging management at Manchester Polytechnic in England and has also been a visiting lecturer in Italy, India and throughout the United Kingdom.

Nightingale served for many years as a chief examiner for the higher national diploma in hotel, catering and institutional management in England and Wales and as external examiner for the degree programs at the University of Surrey and at Sheffield Polytechnic. Recently, he has worked as a hospitality and tourism consultant in Britain and around the world. O

World Food Day focuses on the family farm

This year's World Food Day program will focus on the problems confronting the family farm around the world. The Oct. 15 program features a panel discussion of "The Family Farm Under Siege: An International Study" at 7:30 p.m. in Room 442, University Centre.

Chaired by Prof. Doug Pletsch, Rural Extension Studies, the panel features CBC producer Carole Giangrande, journalist Peter Hendry, formerly of the Food and Agriculture Organization of the United Nations, and local hog farmer Eleanor Hart.

Discussion will focus on such issues as bankruptcy, new patterns of control over the food production system and the environmental impact of corporate agriculture. Panelists will also discuss land ownership, overproduction in the West, food aid and the promotion of export crops in developing countries.

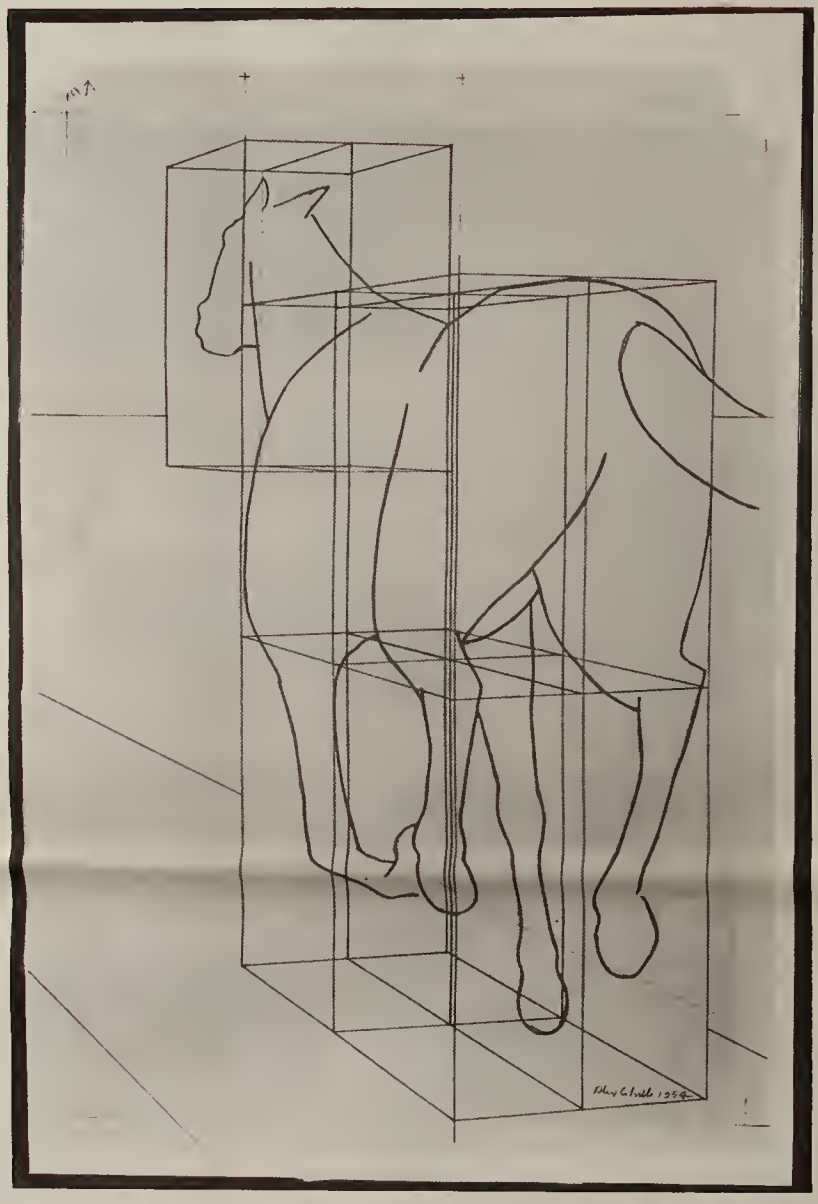
The program is free and open to the public. O

Investing In Our Future

Canada's universities are a window on the world. They're about people and ideas, research and development, next door and around the world. They're a vital part of our community, making our best resource - our people - even better.

NATIONAL UNIVERSITIES' WEEK
october 24 to november 1

THE DOW GIFT



Transfer cartoon for "Horse and Train," 1954, by Alex Colville, grophite an paper, a gift ta the Art Gollery af Ontorio from Fine Art professor Helen Dow.
Photo by AGO

by Andrea Mudry Fawcett

Fine Art professor Helen Dow has donated a collection of works by Alex Colville to the Art Gallery of Ontario. "Alex Colville: The Dow Gift," an exhibition of these works, opened recently at the AGO's Margaret Eaton Gallery and continues until Nov. 15.

Dow will discuss the art of Colville at an illustrated lecture in the AGO's Jackman Hall Oct. 11 at 1:30 p.m.

Dow's gift includes 27 pieces, many of them preparatory pieces for such well-known Colville paintings as "Horse & Train" (1954), "Athletes" (1961), "Swimmer" (1962), "Woman & Terrier" (1963) and "Stop for Cows" (1967), all of which were included in the AGO's 1983 major Colville retrospective. A mint set of coins, portraying animals, which was designed by Colville for Canada's centennial year, is also on exhibit. A total of 61 works are on display; the remaining 34 are on permanent loan to the gallery.

A specialist in medieval and Canadian art, Dow first met Colville as a colleague while teaching at Mount Allison University in the early 1960s. Although she initially began dutifully collecting fine art works, including native pieces, "as an encouragement to others who would presumably look to me for leadership in this field," her interest in Colville's work became a fascination that culminated in 1972 in a major illustrated scholarly book *The Art af Alex Colville.*

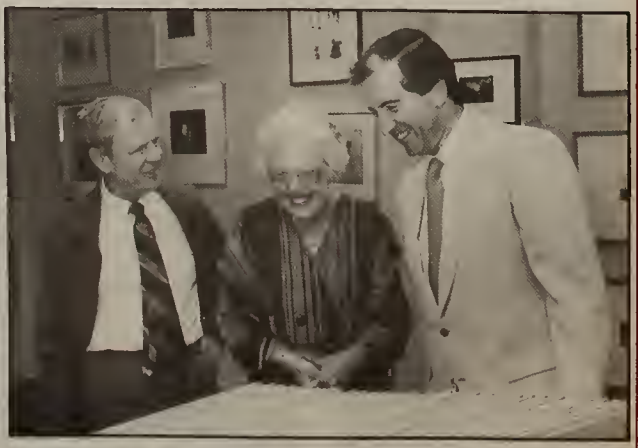
Colville's perception of space, tonal quality of coloring and sense of human responsibility are some of the features that have provoked this enduring attraction, says Dow. "Colville's work, whatever its content may be, consistently presents such a perceptive awareness that the spectator is left with the impression that he has never really observed the world before," she wrote in her book.

Several preliminary pieces of "Horse & Train" are in the exhibition, and Dow points out the tonal quality of the open landscape near the end of twilight, the fading luminosity of the sky, which is reflected from the metal rails of a track. A train, traditionally a symbol of death, speeds into the foreground, its lighted headlamps suggesting the ominous persistence of its movement. For Dow, the horse represents all that is human confronting all that is inhuman, spirit against matter, feeling against mechanism and, ultimately, the creative artist against destruction.

"Colville often chooses animals as subjects for his painting because they automatically perform their function, without the complications of moral choice for which man is constantly responsible," says Dow. "They become a model for behavior."

In the preface to her book on Colville, Dow says: "There can ... only be one real purpose in attempting to write about painting, that of urging the reader to go and look at the work itself."

A former chair of the Department of Fine Art, Dow came to Guelph in 1972 after teaching at several universities in Canada and the United States. A graduate of the University of Toronto and Bryn Mawr College, she has published extensively in fine art journals. O



Praf. Helen Daw with College of Arts Dean David Murray, right, and Praf. George Todd, chair of the Department af Fine Art.
Photo by Herb Rauscher, Photographic Services

THE BLOB — a biological wonder

by Owen Roberts

Science fiction movie fans remember "The Blob" as a lumbering mountain of jelly, bent on destroying the world. But Prof. Janet Wood, Chemistry and Biochemistry, thinks the "blob" she's studying holds the key to a mystifying array of biological problems, from diseases like diabetes to Western Canada's billion-dollar soil salinity crisis.

Wood and Prof. Peter Pauls, Crop Science, have applied for a grant from the Natural Sciences and Engineering Research Council to unravel the riddle of the "blob."

Wood's "blobs" are actually minute protein molecules. Even through a powerful electron microscope, they're visible only as tiny dots. They occupy about one per cent of the area of the wall surrounding every living cell, and are seated among millions of smaller molecules that form a barrier between the cell and its external environment.

Researchers have discovered that these protein "blobs" have an essential function — they're like miniature pumps or transporters, responsible for the passage of essential substances like sugars and amino acids between the inside and outside of the cell.

"They're really intricate little machines whose moving parts are atoms," says Wood.

By applying new genetic and biochemical techniques, scientists have achieved a breakthrough in understanding what the pumping mechanism does. The challenge now facing Wood and her colleagues is to deduce how, on the cell's behalf, the "blobs" select substances through the cell wall and how the cell regulates their activities.

"Besides being a fascinating area of basic, fundamental research, it's economically worthwhile to understand how these transporters work," says Wood.

One of the most dramatic problems that might be solved through more knowledge of the pumps and how their actions are controlled, she says, is the $80-million-a-year loss prairie farmers suffer from salt-laden soil. In the early 1980s, it was estimated that salinity had already lowered farmland values by $3 billion.

Crop production is dramatically reduced by high salt levels, which dehydrate cells by the process of osmosis. Related studies by Wood and others have shown that to protect themselves from dehydration, bacterial cells either synthesize a new substance internally or accumulate an available innocuous substance from their external environment. In either case, transporters ("blobs") are used to keep newly created substances in or to select the best external substance to admit.

"We suspect that the survival of plants in saline soils is also enhanced through the efforts of these molecular pumps," says Wood. "If they're not helping to adequately balance the cell contents, the plant can't cope with its saline environment and production is either cut sharply or the plant dies."

Along with Pauls, Wood wants to study how these protein pumps can be manipulated to make plants less vulnerable to the ravages of saline soil.

Understanding how "blobs" work is also an area of medical interest, especially to diabetes researchers, says Wood. Diabetes occurs when there's a lack of production of the hormone insulin, which controls the transport or uptake of glucose from the blood into cells. Cells use glucose as an energy source; in its absence, they're starved.

Understanding how the transporters select and move the glucose from the outside to the inside of the cell and how a hormone like insulin controls these transporters is important for the control of diabetes. O

Remember "The Blob"? Biochemist Janet Wood, at right, is trying to solve the mysteries of microscopic "blobs" that she and other researchers believe are the key to problems like diabetes and the soil salinity crisis in Western Canada.
Photo by Office of Research

Blood parasite studies attack sleeping sickness

by Pamela Healey

Millions of people in the tropics suffer permanent poor health or death from parasitic diseases like trypanosomiasis, malaria and Chagas' disease. Each year there are 10,000 to 20,000 new, often fatal, cases of African trypanosomiasis or sleeping sickness.

Zoology professor Patrick Woo says new drugs to treat trypanosomiasis are not being developed and that existing drugs are highly toxic, have serious side effects and are generally not available. In addition, the parasite develops drug resistance. Woo and Nigerian colleague Ijeoma Otigbuo of the College of Medicine, University of Lagos, have shown that two inexpensive drugs, readily available in developing countries, act together to effect a cure in animals and cell cultures, although neither drug alone works well against the parasite.

Woo described a highly sensitive technique for detecting blood parasites that is used to diagnose human and animal trypanosomiasis in Africa, and malaria and Chagas' disease in Bolivia. According to the World Health Organization, malaria is still the most common and serious parasitic disease in the world, causing about 1.5 million deaths a year. Chagas' disease, afflicting at least 20 million people in Latin America, damages the heart, esophagus, lower intestine and peripheral nervous system.

Although animals can be infected with the human parasite, the progression of Chagas' disease is quite different. Woo and former graduate student Susan Bower described a parasite, from bats in Ontario, that is morphologically identical, and biologically similar, to the human parasite. The bat may be a good animal model for studies on the progression of Chagas' disease and for screening new drugs, he says.

Blood parasites cause serious problems in animal as well as human populations. In Africa, for example, an area as large as the United States is unsuitable for raising livestock because of the tsetse fly, which carries the blood parasite causing trypanosomiasis.

On the west coast of North America, another blood parasite is causing disease and death in trout and salmon. Woo's description of the disease and its clinical signs in experimentally infected fish has been confirmed by scientists working on naturally infected fish in British Columbia.

Blood parasites are normally transmitted by blood-sucking invertebrates like the tsetse fly or leech. But Woo and technician Sybille Jones showed the west coast blood parasite can occur on the body surface, permitting direct transmission between fish and explaining disease outbreaks and fish mortality in hatcheries where there are no blood-sucking invertebrates.

The number of infected fish in some hatcheries varies from 10 to 80 per cent, with some genetic stocks more susceptible than others, says Woo. Infection depresses the immune system, as with the disease AIDS, and the fish becomes more susceptible to other organisms.

In collaboration with Prof. Roselynn Stevenson, Microbiology, Woo and graduate student Simon Jones showed that fish infected with this blood parasite can't be immunized against bacterial diseases and that vaccination programs against other pathogens, normally used in hatcheries, may be ineffective.

Woo's research is funded by the Natural Sciences and Engineering Research Council of Canada. O

RSS — a race against time

This spring, George Robinson had a 1.5-million-gallon problem.

The collective manure from 7,274 chickens, 1,894 hogs, 928 cattle, 344 turkeys and 39 quail, which had accumulated at the University's four research farms over the winter, was straining the capacity of the farms' holding tanks.

Research Station Services (RSS), which maintains the farms, had to spread the manure before spring planting, which was right around the corner. But the weather was horrendous. It wouldn't stop raining, and RSS workers under the direction of Robinson, RSS research management officer, couldn't get on to the fields they maintain for the Ontario Ministry of Agriculture and Food and the University.

"It was a real race against time," he says. "When we finally got a break in the weather, we went on a 96-hour, non-stop blitz spreading manure. Then about a week later, we had another marathon session trying to plant crops with the storm clouds threatening again."

RSS, which maintains most of the livestock and poultry (and grows 90 per cent of their feed and hay) for University research, caught a glimpse of this year's harvest when workers cut 4,000 tonnes of alfalfa hay they produced.

Robinson says it was a very good crop. "But that, too, turned into a race against time," he says. "We worked into the night to truck the haylage to silos before it lost moisture content lying in the hot, dry fields."

And this fall they're doing it again for a 50,000-bushel corn harvest.

Inclement weather is not unusual in agriculture, and sometimes farmers can do little to rebound from its ravages. But when RSS is negatively affected by the weather, the repercussions are enormous.

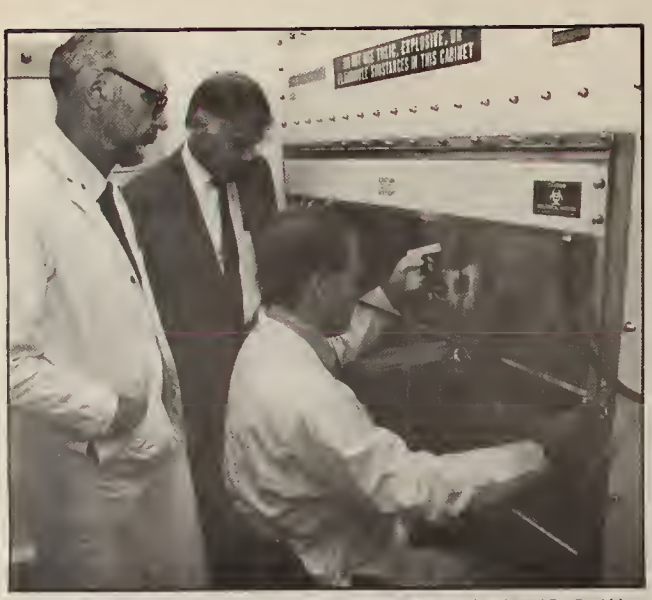
"Researchers rely on us to provide them with the best possible product, from the animals they use to the hay they feed them," says Robinson. "If the quality of any part of the system isn't optimal, it can throw off their research results. Even when the odds and the weather are against us, we've got to deliver. We're the hub of the wheel."

That mandate has made RSS the agricultural industry standard in Wellington County, and at the same time, has kept its day-to-day operations in a fish bowl. Farmers carefully monitor the success RSS has with a given breed, crop, growing technique or piece of machinery before using it on their own farm. And they regularly call for advice on a wide range of problems that RSS has probably already experienced during its years of association with the University.

Following a long affiliation with the Department of Animal and Poultry Science, RSS became an independent group in 1965. At the time, RSS had 18 staff members and was responsible for maintaining 1,100 acres of land. Today, the organization has the same number of permanent staff, but looks after almost 3,400 acres of land with a budget of $537,000 (from the $27-million contract for research and services between OMAF and the University).

On May 1, RSS came under the administration of Dr. Jim Mahone, director of contractual research and services, Office of Research, 620 Gordon St. Bruce E. McCallum was named RSS policy and planning co-ordinator and relocated to the Gordon Street office. Robinson and RSS secretary Maureen Drescher will soon relocate to the new RSS offices in Elora. O

George Robinson, research management officer for the Research Station Services, left, checks out this summer's alfalfa crop with Harvey Maurer, manager of the Elora Research Station.
Photo by Owen Roberts, Office of Research



Connaught Research Institute is sponsoring two research students in the new three-year co-op program. Here, post-doctoral fellow Dr. Roy Persson demonstrates laboratory techniques for CBS Dean Bruce Sells, left, and Dr. David Ives, assistant director of resources management for the Willowdale-based institute.

Photo by Office of Research

Co-op: A different approach to biotechnology

A $500,000 co-operative education and training program in molecular biology and biotechnology — the first of its kind in Canada sponsored by the Natural Sciences and Engineering Research Council (NSERC) — is now in full swing on campus.

Spearheaded by CBS Dean Bruce Sells, the program is designed to create a supply of Canadian scientists who can lead the country in these growing fields.

The three-year University/industry co-operative graduate and post-doctoral program in molecular biology and biotechnology involves six graduate students and four post-doctoral fellows. Participants will spend two years doing basic research at the University, then another year applying their skills in industry laboratories.

NSERC is providing 75 per cent of the program funding. The remainder is being contributed by participating industries — Connaught Research Institute, Labatt Brewing Co. Ltd., Allelix Inc., Weston Research Centre, Meiogenics Inc., Molson Breweries of Canada Ltd., Pioneer Hi-Bred Ltd., Semex Canada and C-I-L Inc.

Students are involved in studies such as vaccine production as a means of guarding against viral infection and a cancer-related investigation of factors important in the control of cell growth.

Dean of Research Larry Milligan says the co-op program is an important initiative. "The graduates from the program will gain the experience that allows them to feel comfortable in both university and industry research settings."

Milligan says the participants will find it easier to see applications for their future research findings and, at the same time, be fully aware of the fundamental understanding required for such applications. "It's another bridge in intermeshing university and industry research," he says. ○

Letters to the Editor

Who's sharing research with undergraduates?

I would like to comment on Dr. Larry Milligan's article in the "Dialogue" section of *At Guelph* Sept. 17.

There are certain inferences in his statements that I find surprising. Indeed, after 25 years of teaching and talking with undergraduate students or graduate students in my courses, there is reason to believe that Milligan must be at some other institution.

He states: ". . .instructors . . . on the leading edge of research, achieving solutions and sharing them with students." He also states: "students can and do serve as an invaluable sounding board for research output. At the same time, graduate and undergraduate students, who share . . . accomplishments and disappointments with our faculty, play a vital role in the questioning and probing process."

The philosophy of the statements is unquestionable, but to suggest that all Guelph faculty share their daily, monthly or even yearly research efforts with the undergraduates tells me that Milligan is out of touch with reality on this campus. I suggest that he stop any 10 or 50 undergraduate students at random (preferably in seventh or eight semester), and he will find that few, if any, faculty have shared their research experiences with them. With their graduate students, yes.

Faculty generally do not have the time (some will not take it) to transfer the sharing to the undergraduate classroom level. I would also remind Milligan that a large percentage of our faculty lecture on subjects only distantly related to their research, and with the proposed reduction in faculty numbers, this percentage will increase further.

I hope that the draft strategic plan's intent to increase graduate enrolment at the expense of our undergraduate program is not based on the above assumption. If it is, the plan will certainly fail in its objective to improve the excellence of our undergraduate program.

Prof. Phillip Sweeny, Microbiology. ○

Briefly

Art classes for children

A series of Saturday art classes for children will run for eight weeks at the Macdonald Stewart Art Centre, beginning Oct. 10. The program includes work in sculpture media and outdoor sketching. Session "A", for ages five to seven, is from 10 a.m. to noon. Session "B", for ages eight to 10, is from 1:30 to 3:30 p.m. Cost is $37.50 for centre members, $45 general. Register in person at the centre's information desk.

Seminar in Mali

Applications for the World University Services of Canada (WUSC) international seminar to Mali are now available from the WUSC committee on campus. The seminar involves six weeks of travel and study in Mali and provides 30 participants with an introduction to various aspects of international development. The working language of the seminar is French. Application deadline is Nov. 6. For more information, contact Jennifer Wilson, International House, Box 720101, Ext. 78342.

Wellington Winds concert

Wellington Winds beings its 1987/88 Guelph season Oct. 4 at 3 p.m. in Music Room 107, MacKinnon building. The concert, "From Russia with Love," will be directed by associate conductor David Davidson. The program will include "Pictures at an Exhibition" by Mussorgsky and the finale of Tchaikovsky's "Fourth Symphony." Tickets are $5 for adults, $3 for students and seniors, and are available at the door.

Surplus items for sale

The Surplus Sales Department, Blackwood Hall, has the following items available for public purchase: SD#306 — two Superbrain computers; SD#318 — one Superbrain QD computer; SD#346 — one multiwriter; SD#368 — one 84-inch National Triplex mower (rope start), one portable toolshed (14' x 8'), one 19-inch Lawnboy rotary mower; SD#277 — vinyl chairs, plastic stacking chairs, several wood top tables in various sizes. For more information and viewing, call Ext. 8139.

Northern training grant

The federal Department of Indian Affairs and Northern Development provides an annual northern training grant to the University to assist with the travel and living expenses of graduate and senior undergraduate students who will be doing field research in the north. The purpose is to help students develop the specialized skills and training needed for professional work in the north.

The northern studies committee of the Research Board, which will prepare the University's 1988/89 northern training grant application, will hold an information meeting for all interested faculty and students Oct. 14 at 5 p.m. in Room 442, University Centre.

Exhibition opens

"Summer's Harvest," a showing of new works by Prof. Allan Austin, English Language and Literature, opens Oct. 4 at the Framing Experience, 35 Harvard Rd., and continues to Oct. 17.

Draw for the gallery

The Volunteer Committee of the Macdonald Stewart Art Centre is holding a reception and raffle Nov. 22 at 3:30 p.m. following a lecture by David Wislow of the Art Gallery of Ontario on "Fakes and Forgeries." Prizes include a lithograph by Ken Danby and gift certificates from a number of local businesses. Tickets at $5 go on sale Oct. 1 and are available at the centre and Gallery Shop or by calling 821-1786.

Benefit shows planned

Beare: A Celtic Odyssey, a multi-media dance theatre production written and choreographed by Allen Norris, will give two benefit performances Oct. 14 and 15 at 8 p.m. at Ross Hall. Cost is $10 for adults and $8 for seniors and students, with all proceeds going to the Guelph Community Health Centre. Tickets are available at the University Centre box office.

Travel agency closes

P. Lawson Travel Ltd. on Level 1 of the University Centre will close at 4 p.m. Sept. 30. Further contact can be made with the P. Lawson Travel office at 91 Queen St., Kitchener, 1-579-1160.

What's new in biology?

The College of Biological Science's Thursday seminar series focusing on what's new in biological research continues Oct. 1 at 1 p.m. in Room 102 of the J.D. MacLachlan building with the topic "Fibre Optics in Biological Research." Guest speaker is Prof. Howard Swatland, Animal and Poultry Science. On Oct. 8, Dr. Karl-Niklas of Cornell University will discuss "The Mechanical Engineering of Plants: Is Nature a Better Engineer Than Man?"

Focus on Guelph

The College Women's Club presents "My Guelph," as seen through the camera of Norm Jary, Oct. 6 at 8 p.m. at The Arboretum Centre. For a ride, call 823-2699 or 821-9883.

Trio performs

The Thursday noon-hour concert Oct. 8 will feature Trio Vivant, with Marie Berard on violin, Dorothy Lawson on cello and Catherine Wilson on piano. Founded by Wilson, the trio has appeared across Canada and the United States and will release their debut album, "Palm Court Pleasures" this fall.

Wilson has a solo performer's degree from the Royal Conservatory of Music, a bachelor of music in performance from the University of Toronto and a master's degree from the University of Michigan. She has appeared on national radio and television and has performed throughout North America and Europe. She also concertizes with pianist John Arpin as the Arpin and Wilson Duo.

Berard has studied with the Banff School of Fine Arts and the National Youth Orchestra of Canada and has soloed with a number of orchestras. She is assistant concertmaster of the National Ballet of Canada Orchestra and is a member of the Amadeus Ensemble of Toronto. Lawson has studied in Toronto and Vienna and is currently enrolled in the doctoral program at the Juilliard School. She has appeared in concerts across North America and Europe.

Program I at 12:10 p.m. in Room 107, MacKinnon building, will consist of "Sonata in A minor, Op. 1, No. 1" by Jean Baptiste Loeillet; "Ragtime Nightingale" by Joseph Lamb; "Pineapple Rag" by Scott Joplin; "Trio in E Major, Hoboken XV: 34" by Haydn; "Sackville St. Ballad" by Wilson; and "Trio for Piano, Violin and Cello" by Gabriel Faure. Program II at 1:10 p.m. features "Arrival of the Queen of Sheba" by Handel; "Aria from the 'Pearl Fishers' Opera" by George Bizet; "Bohemia" by Lamb; "Solace" by Joplin; "Oh Gee! Oh Joy!" by George Gershwin; and "Three Nocturnes" by Ernest Bloch. Admission is free.

Call for volunteers

Volunteers are needed to help with life skills programs and to be friends with residents of Wyndham House — a program for young women 16 to 20. Call 763-8040 or write to Marj Brooks, Plant Biotechnology Centre.

Appointments

Rob Witherspoon is the new horticulture co-ordinator for Independent Studies. Witherspoon was a turfgrass consultant in Stratford before joining the University. Previously, he worked at Fairview College in Alberta, and before that he was with the Department of Horticulture here.

Our people

Prof. Jay Majithia, chair of the Department of Computing and Information Science, has been appointed to the Natural Sciences and Engineering Research Council's scholarship and fellowship committee for engineering and computer science, for a three-year term. ○

Visiting Professor

Prof. Hardy Vogtmann, who holds the chair of alternative farming methods at the University of Kassel, Germany, will visit the Department of Land Resource Science Oct. 8 and 9. Vogtmann is recognized internationally for his work on environmental impacts on food quality as well as on alternative farming methods.

During his visit, Vogtmann will give two public lectures. On Oct. 8 at 8 p.m. in Room 124, Land Resource Science building, he will discuss "The Importance of Biological Agriculture in a World of Diminishing Resources." On Oct. 9 at noon in Room 103, University Centre, his topic is: "One Year After Chernobyl: Implications for the Food Supply." Anyone wishing to arrange a meeting with Vogtmann during his visit should contact Prof. Murray Miller, director of the Centre for Soil and Water Conservation, in Room 203, Land Resource Science building, Ext. 2482. ○

Coming events

WEDNESDAY, Sept. 30

Concert - Paul James, noon, UC courtyard.
Biochemistry Seminar - "Are There Microtubules in Death Valley? An Investigation," Robert Keates, 12:10 p.m., MacNaughton 222.
Worship - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5; Great Commission Students fellowship meeting, 763-1282 for more information.
Botany Seminar - "Methotrexate Resistance as a Marker in Plant Somatic Cell Genetics," 3 p.m., Botany/Genetics/Zoology 117.
Cycling Club - Rockwood (novice ride), 17 miles, 5 p.m., UC south doors.
Faculty Club - Annual General Meeting, 5 p.m., Faculty Club, UC Level 5.
Speaker Series - "The Secret Wars of the CIA," John Stockwell, 7:30 p.m., War Mem Hall, $6 general, $5 students.

THURSDAY, Oct. 1

Instructional Development Workshop - Students' Intellectual Development," 10 a.m. to noon, MacKinnon 132.
Worship - Meet and Eat, noon, University Centre 335; Social Evening, Ecumenical Campus Ministry, 5 p.m., Mature Students Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Social Evening, Roman Catholic Ministry, 6 to 9 p.m., UC 335; Christian Coffee House, Great Commission Students, 7:30 p.m., UC 103.
Concert - Paul Bempechat, piano, 12:10 and 1:10 p.m., MacKinnon 107, free.
Biology Seminar - "Fibre Optics in Biological Research," Howard Swatland, 1 p.m., J.D. MacLachlan 102.
Gerontology Student Association - An Evening With Robert McClure, 8 p.m., Creelman Hall, $5 general, $3 students and seniors.

FRIDAY, Oct. 2

Plant Sale - FACS '90, 9 a.m. to 4 p.m., UC courtyard.
Convocation - PhD, MA, D.V.Sc., MLA, Graduate Diploma, M.Sc., B.A.Sc., B.Sc., B.Sc.(H.K.) and B.Comm., 10 a.m.; BA, B.Sc.(Agr.), B.Sc. (Eng.), BLA, Associate Diploma in Agriculture and DVM, 2:30 p.m., War Mem Hall; Convocation teas to follow in Peter Clark Hall.
Worship - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Ecumenical Holy Communion, 1:10 p.m., Chapel, UC Level 5.
Current Issues in Agriculture - "Agriculture and the Popular Press," Roy Maxwell, 3 p.m., Crop Science 121.
Dinner Theatre - Theatre in the Trees, "Suitehearts," 6:30 p.m., $25.50.

SATURDAY, Oct. 3

Skills Training Series - "Green Revolution Game," 9:30 a.m. to 4 p.m., HAFA 311, preregistration required, $2.50
Football - Guelph vs Windsor, 2 p.m., Alumni Stadium.
Dinner Theatre - Theatre in the Trees, "Suitehearts," 6:30 p.m., $25.50.

SUNDAY, Oct. 4

Cycling Club - Cambridge Loop, 30 miles, 10 a.m., UC south doors.
Worship - Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry (Anglican, Presbyterian, United, Lutheran), 10:30 a.m., Chapel, UC Level 5.
Arboretum - Sunday Afternoon Walk, "Poems for Fall," 2 p.m., J.C. Taylor Nature Centre.
Concert - "From Russia With Love," Wellington Winds, 3 p.m., MacKinnon 107, $5 general, $3 students and seniors.

MONDAY, Oct. 5

Liberal Arts Series - "Missing Link in Development: Prescription Without Diagnosis?" Jorge Nef, noon, UC 103.
Botany Seminar - "The Evolutionary Ecology of Fire-Successional Fungi," 3 p.m., Botany/Genetics/Zoology 117.
Worship - Catholic Mass, 5:10 p.m., Chapel, UC level 5.
Skills Training Series - "Jamaica: Historical, Political and Economic Background," 7 to 10 p.m., UC 441, $2.50.

TUESDAY, Oct. 6

Plant Sale - FACS '88, 9 a.m. to 4 p.m., UC courtyard.
Discussion - "The Learning Objectives: What Do They Mean for My Teaching," noon, MacKinnon 132.
Worship - Christian Issues and Apologetics, noon, UC 103; Catholic Mass, 12:10 p.m., Chapel, UC Level 5; Inquiry into Catholicism, 4:10 p.m., Room 335, UC; Faithfully Curious, 5 p.m., UC 335.
Our World - "Hunger: Natural Solutions," 12:10 p.m., UC 442.
Physics Seminar - "A Search for Planetary Companions to Solar-Type Stars," 4 p.m., MacNaughton 113.
McLean Memorial Lecture - "Approaching the Uruguay Round of International Trade Negotiations," Robert Thompson, 8 p.m., J.D. MacLachlan 102.
College Women's Club - "My Guelph," Norm Jary, 8 p.m., Arboretum Centre.

WEDNESDAY, Oct. 7

Fashion Show - Establo Fashions, noon, UC courtyard.
Worship - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5; Great Commission Students fellowship meeting, 763-1282 for more information.
Cycling Club - Maryhill (novice ride), 25 miles, 5 p.m., UC south doors.
Drama - "Another Season's Promise," 8 p.m., War Mem Hall, $9.50 to $11.50 general, $8.50 to $10.50 students and seniors.

THURSDAY, Oct. 8

Instructional Development Workshop - "What Constitutes an 'A' in My Course?" 10 a.m., Animal Science 141.
Pathology Seminar - "Aspects of the Permeability Barrier in the Skin of Small Cetaceans," Lenore Latta, 11:10 a.m., Pathology 220.
Worship - Meet and Eat, noon, UC 335; Social Evening, Ecumenical Campus Ministry, 5 p.m., Mature Students Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Social Evening, Roman Catholic Ministry, 6 to 9 p.m., UC 335; Christian Coffee House, Great Commission Students, 7:30 p.m., UC 103.
Concert - Trio Vivant, violin, cello and piano, 12:10 and 1:10 p.m., MacKinnon 107, free.
Biology Seminar - "The Mechanical Engineering of Plants: Is Nature a Better Engineer Than Man?" Karl Niklas, 1 p.m., J.D. MacLachlan building 102.
Skills Training Series - "Starting a Country Program," 7 to 10 p.m., UC 332, $2.50.
Football Game - Waterloo at Guelph, 7 p.m., Alumni Stadium.
Lecture - "The Importance of Biological Agriculture in a World of Diminishing Resources," Hardy Vogtmann, 8 p.m., Land Resource Science 124.

FRIDAY, Oct. 9

Worship - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Ecumenical Holy Communion, 1:10 p.m., Chapel.
Lecture - "One Year After Chernobyl: Implications for the Food Supply," Hardy Vogtmann, noon, UC 103.

SUNDAY, Oct. 11

Cycling Club - Aberfoyle, 30 miles, 10 a.m., UC south doors.
Worship - Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry (Anglican, Presbyterian, United, Lutheran), 10:30 a.m., Chapel, UC Level 5.
Arboretum - Sunday Afternoon Walk, "Migration," 2 p.m., J.C. Taylor Nature Centre.

MONDAY, Oct. 12

Schedule of Dates - Thanksgiving Day, no classes scheduled.
Worship - Catholic Mass, 5:10 p.m., Chapel, UC level 5.

TUESDAY, Oct. 13

Discussion - "The Learning Objectives: What Do They Mean for My Teaching," noon, MacKinnon 132.
Worship - Christian Issues and Apologetics, noon, UC 103; Roman Catholic Mass, 12:10 p.m., Chapel, UC Level 5 Bible Study, 7 p.m., UC 332; Inquiry into Catholicism, 4:10 p.m., Room 335, UC; Faithfully Curious, 5 p.m., UC 335.
Our World - "The Dispossessed," 12:10 p.m., UC 442.
Botany Seminar - "Plant Parental Strategies," 3 p.m., Botany/Genetics/Zoology 117.
Physics Seminar - "Spectroscopy of High-L Rydberg States of H_2: A Sensitive New Probe of the H_2^+ Molecular Ion," *Stephen Lundeen, 4* p.m., MacNaughton 113.
CUSO - Information Meeting, 7:30 p.m., UC 441.

WEDNESDAY, Oct. 14

Display - World Food Day, 10 a.m. to 4 p.m., UC courtyard.
Concert - Contemporary Dancers, noon, UC courtyard.
Cycling Club - Fife Road — Marden, 25 miles, 5 p.m., UC south doors.
Biochemistry Seminar - "Bacterial-Induced Plant Growth Promotion," 12:10 p.m., MacNaughton 222.
Worship - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5; Great Commission Students fellowship meeting, 763-1282 for more information.

Personals

For Sale: Ennis upright piano and bench, 821-8945 after 9 p.m. Two new single stainless steel sinks; child bike carrier; women's bicycle; girl's skates, size 12 and 13; women's skates, size 6; men's skates, size 9; men's down-filled jacket; men's down-filled ski suit; Toyota car mats, 822-3129. Cedar canoe, 16-foot, mahogany gunnels, woven rope seats, used only twice; fibreglass sailing dinghy with oars, located in Penetang, 856-9091 after 6 p.m. Nine-year-old thoroughbred gelding, Patsy, Ext. 4976 or 936-8704. Three-year membership to Gold's Gym, Priscilla, 763-3278. Inglis automatic washer, Hotpoint dryer, double waterbed, 12-speed racing bicycle, 824-9126 after 5 p.m. Sofa and chair; bamboo window blinds, 88" x 48", Ext. 4060 or 821-1634 after 5:30 p.m. Five-piece sectional sofa, forest green, 836-4806 after 5 p.m. 1983 Plymouth Reliant, four-cylinder, four-door, certified, cruise control, 67,000 kilometres, Ext. 3700 or 824-9603 after 5 p.m.

Wanted: Table top hockey game, Paul, 837-2205 after 5:30 p.m.

Available: Professional typing, 824-6065.

For Rent: Spacious four-bedroom house, five minutes by car from University, December to end of June, rent negotiable, 836-6108.

"Personals" is a free service offered by At Guelph *for staff, faculty and students at the University. All items must be typed, double spaced, and submitted to* At Guelph *one week before publication.*

Job opportunities

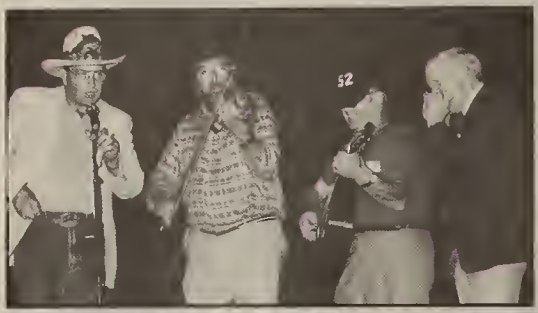
As of *At Guelph* deadline Sept. 25, 1987, the following opportunities were available:
Software Project Development Co-ordinator, Communications Services; contractually limited. Salary commensurate with qualifications and experience.

The following positions were available to on-campus employees only:
Secretary II, Department of Crop Science. Salary range: $303.42 minimum; $350.66 job rate (level 5); $436.76 maximum.
Custodian 2, Housekeeping Department. Job rate: $10.27 per hour; probation rate: $ .20 per hour lower than job rate.
Custodian 4, Housekeeping Department. Job rate: $11.20 per hour; probation rate: $ .20 per hour lower than job rate.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, contact employment services and training, Level 5, University Centre, or telephone 836-4900.

A mid-term review conference of the University's Sulawesi Regional Development Project was held recently on campus. Pictured above, left to right, are Piek Mulyadi, director general of regional development, Department of Home Affairs, Indonesia; Prof. Harry Cummings, University School of Rural Planning and Development, director of the Sulawesi project; President Burt Matthews; and Art Wright, vice-president of the Canadian International Development Agency, which is providing funding for the project.
Photo by Herb Rausher, Photographic Services

Double bill for OVC anniversary



OVC showed everyone what a good time is all about last week at 125th anniversary celebrations. Clockwise from top left: "VETS" included Rowdy Ross and his Rootineers and Carm Redmond and his High-Level Boys; Professor Emeritus James Archibald (with grandson), father of "VETS" writer/director David Archibald; Class of '51 wearing bowler hats; honorary degree recipients Robert Dunlop, Harry Rowsell and Douglas Blood (with President Burt Matthews); and Schofield lecturer Dr. Franklin Loew (with OVC Dean Ole Nielsen).

Photo by Margaret Chalmers, OVC Media

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UNIVERSITY of GUELPH

A Guelph

Volume 31 Number 30 October 7, 1987

Cover: *Elizabeth Smaller of Guelph, a teaching assistant in the Department of Sociology and Anthropology, shares the thrill of receiving a degree with family Oct. 2.*

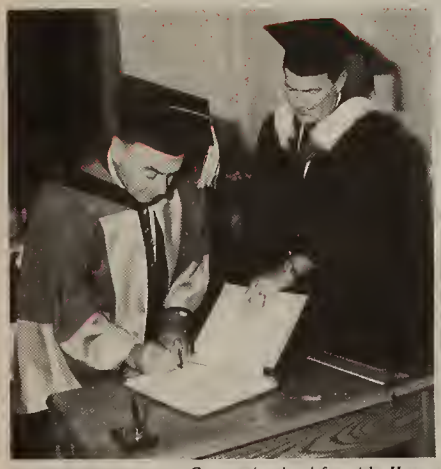
Photo by Herb Rauscher, Photographic Services

Inside:

- Golden egg for research 1
- Step-by-step planning 2
- United Way - going for a goal 4, 5
- World Food Day plans 8

UNIVERSITY of GUELPH

At Guelph



Convocation day, left to right: Honorary doctor of science degree recipient Dr. Sydney Wise with Registrar Arnold Holmes; professor emeritus Alex

Ross, left, with MP Bill Winegord, former U of G president, and Dean of Arts Dovid Murroy; and hanarary doctor of orts degree recipient Dr.

Dovid Idler, right, leads the processionol ocross campus with President Burt Matthews.

Photos by Herb Rauscher, Photographic Services

Research theme of convocation addresses

Some 464 undergraduate and graduate degrees and diplomas were conferred at fall Convocation Oct. 2 Dr. Sydney Wise, dean of graduate studies at Carleton University, received an honorary doctor of science degree, and biochemist David Idler of Memorial University, Newfoundland, received an honorary doctor of arts degree.

Retired English Language and Literature professor Alexander Ross, who played a major role in establishing the department of English at the newly created University in 1964 and served as its chair until 1974, was named professor emeritus.

Idler, a fellow of the Royal Society of Canada and a distinguished biochemist, told the graduates to save some time in their careers for truly exploratory research or endeavor.

For many years, "publish or perish" has been the motto of science in North America, he said. "While this philosophy has given us fair and impartial guidelines for evaluating our peers in the granting system, it does not always take into account the contribution of research to society."

Idler said there is little incentive and often little support for a scientist to pursue a worthwhile objective unless there are milestones along the route that mark achievements that may be acceptable to refereed scientific journals.

"There are avenues open to the majority of you who must earn your bread and butter in the granting system, but who also have ideas they wish to explore, even though the prospects for publication are not rosy, at least not in the short term," he said. "Do what you must do within the system, but save some time for truly exploratory research or endeavor.

"As your exploration pays off, you will find university administrators, government officials and those in the private sector willing to carry your future exploratory research for increasingly long periods, assuming that reasonable progress is being made."

Idler also said that people who hold the purse strings should resist the temptation to pressure universities to direct their energies to research priorities established by governments and industry.

"In a free society, choices should be made by individuals and we should learn from history that the truly great discoveries have resulted from the accumulated knowledge contributed by individuals, and not from directed or co-ordinated master plans.

At the afternoon ceremony, Wise told the graduands that Canadian society is making more demands on universities than ever before — demands that pose difficult questions.

Because a university education is seen by more and more people as essential to an effective life, "there is a powerful demand to keep universities open to all who meet the minimum standard for entrance," said Wise. At the same time, society is demanding that universities strive for excellence and provide a quality education, which may mean putting restrictions on enrolment.

"Accessibility and excellence are usually seen as being in opposition," he said. "No wonder that university people tend to feel that they are being asked whether to eat or to breathe."

Society is also asking universities to become partners in the economy, said Wise. Politicians and corporate executives believe universities should "rationalize internal organization, place a much heavier emphasis on research, especially applied research, and collaborate more closely with business and industry."

This attitude clashes with the essence of university research — free inquiry, he said. "University research is and must be open research. And the communication of research results by faculty and students is vital."

It is becoming increasingly clear that "universities cannot perform all the tasks that society, the government and the corporate sector wish to lay upon them unless they receive additional support," said Wise. He urged the graduates to maintain their connection with the University, to interest themselves in its welfare, "and to be prepared, if need be, to lend your support to it."

The full text of the convocation speeches is available from *At Guelph*, Ext. 3864. ○

$1 million for egg research

Prof. Les Ferrier, Food Science, has been appointed to the Egg Producers Chair funded by the Ontario Egg Producers Marketing Board. Ferrier will initiate research into additional uses for eggs, in both food and non-food products.

At present, little research is being done on egg technology in Canada, the United States and Europe.

On Sept. 29, egg board chair Bill Scott presented a cheque for $1 million to President Burt Matthews to initiate a trust fund. The interest will support Ferrier's salary and will provide technical staff, research assistants and some research funding for at least 10 years. Additional research funding will be obtained from other sources.

Situated within the Department of Animal and Poultry Science, the Egg Producers Chair will work closely with both the egg producing and processing industries, says Ferrier. His efforts will begin with basic research on the chemical and physical properties of eggs, but will quickly grow into applied research and eventually prototype product development.

"Our ultimate objective will be to capture a larger share of the world market hy putting Ontario egg producers and processors in a more competitive position," he says. The egg board estimates that if research can encourage industry to "use eggs instead" and increase egg use by one egg per bird each year in Canada, that would represent increased revenue of $2 million per year.

Ferrier will report regularly to the egg board on the chair's research activities and will participate in its extension/liaison activities.

He brings to the position seven years of teaching experience at Guelph and the University of Illinois and 10 years of diversified industry experience. He has expertise in food processing and product development, with past research interest in the potential of immobilized enzymes, the use of irradiation in food products and the influence of processing on protein functionality. His research efforts at Guelph have included dairy processing and the thermal processing of acid foods.

Ferrier has an undergraduate and graduate degree from Guelph and a doctorate in food science from the University of Wisconsin. ○

Left to right, Bill Scott, Prof. Les Ferrier and OAC Dean Freeman McEwen, follawing presentation of a $1-million cheque for egg research.

Photo by Herb Rauscher, Photographic Services

Report on Senate

Motions still pending from planning paper

Senate accepted for discussion the *Report of the Committee on University Planning on the Strategic Planning Paper* at a special meeting Sept. 29, but time ran out before it could deal with all of CUP's motions arising from the paper.

Senate will continue with the remaining motions at its next regular meeting Oct. 20, says Barbara Abercrombie, University secretary.

At that meeting, Senate will go back to a motion on procedures for the development of strategic plans. If approved, the process would involve information gathering with an opportunity for input from the University at large and preparation of a discussion paper as the basis for open, University-wide debate, followed by the formation of motions that would be presented to Senate for approval.

Senate decisions, and the president's decision on issues outside of Senate's mandate, would then constitute the University's strategic plan for the current year and would guide the budget allocation process.

Senate will also continue with the remaining parts of a motion dealing with goals to be achieved in the planning process. If approved, Senate would instruct the Board of Graduate Studies to evaluate the appropriateness and impact of changes and the resources needed to raise total graduate enrolment to 40 per cent, increase the fraction of research degree graduate enrolment in doctoral programs and up the number of graduate students holding scholarships.

And Senate would ask the Senate Committee on Educational Development to review how well current programs meet the needs of entering students and report back with recommendations by June 1988.

Senate must also deal with a motion on staffing and budget considerations. If approved as part of the budget presentation process, the president, beginning in 1987/88, would report to Senate on major changes in University staffing patterns.

After a full evening of debate, Senate endorsed motions that give the vice-president, academic, the mandate to ask teaching units to conduct, as part of their ongoing planning process, a review of activities to make the most of resources and give the president the authority to review all non-teaching units to increase efficiency while maintaining level of services. The president will report to Senate, through CUP, any significant changes brought about as a result of the non-teaching unit reviews.

Senate also gave the Board of Undergraduate Studies the go-ahead to examine the schedule of dates for semesters and to investigate the implications of alternative formats for offering courses, reporting back to Senate by February 1988.

Prior to the meeting, some 50 placard-carrying students chanted in a demonstration organized by the Central Student Association. Their messages: "Stop the strategic plan — defend liberal education," "Stop course and faculty cuts," "Preserve our programs," "Don't cut access" and "We won't pay more for less."

Vice-President, Academic, Jack MacDonald guided Senate through the strategic planning paper. He reminded senators that the paper begins with the assumption that the University's aims are in place and that they will form the basis of planning and guide the institution toward the Year 2000.

He said this year's document is going to be quite different from any others because it begins part way through the process. No accepted process was in place, and the committee did not have time to get University-wide input, he said. The committee started with the five-year plans as the basis for this year's planning process.

The crux of the planning paper, said MacDonald, is that the University's discretionary funds have declined by almost $3 million since 1975, and that "we are doing more than ever before, but with fewer resources." There is no foreseeable way to increase discretionary income, he said, and the University must examine all its activities relevant to its resources and strike a new balance.

"If we don't set our house in order, I really believe that our ability to implement the aims document will be compromised."

CUP chair Prof. Bev Kay, Land Resource Science, led senators through the committee's motions. During discussion on the annual planning process, senators expressed concern about reduction of faculty positions. College of Social Science Dean John Vanderkamp noted that the real intent of the planning process is to make units think about the priorities they want to pursue that will open up the possibility of doing new things. And this will only come about if something else is cut, he said.

"What this strategic planning paper is all about is to find funds for new things," said Vanderkamp. "And to do the things we do now more effectively," added MacDonald.

Senators also had concerns about the process used to produce this year's planning paper and the lack of Senate representation on the committee that wrote it. "Why didn't CUP produce the paper, instead of a committee that was selected by the president?" asked student senator Chris Moore. Matthews reminded Senate that it had instructed CUP to ask the president to prepare the paper. "Senate should cling to whatever authority it has," said student senator Julian Holman, to Senate applause. Matthews agreed: "Senate should make sure it exercises its authority."

Prof. John Simpson, Physics, noted that because the paper came to Senate for discussion only, there was no opportunity for senators who may disagree with some of the document's wording to change it.

Matthews noted that most university presidents do have strategic plans, but he believes he is among the first to talk about it before it is implemented.

Some senators thought the annual planning process should be done every two or three years. Prof. Donna Lero, Family Studies, said academic planning could not be pushed through on an annual basis. Kay said that although the process is an annual event, the time period it examines would not necessarily be restricted to one year only.

During discussion of the review of activities by teaching units, a senator asked what "optimizing use of resources" meant, and another asked what yardstick would be used to measure it. Prof. Bill Christian, Political Studies, said his interpretation was "fewer lectures in bigger classes."

Kay said departments have traditionally run on a set of operating ground rules. The University is now asking whether there is a new set of ground rules out there and what are the alternative ways of using those resources — on the understanding that the resources stay in the unit.

During discussion on the scheduling of semesters and course formats, Prof. Hamish Rattray, Chemistry and Biochemistry, asked what the University was doing about the three-semester system. Matthews said the system still exists and there is no active review of it right now. Rattray said perhaps there should be.

In response to questions about what might be looked at in course formats, Prof. Ernest Dalrymple-Alford, acting associate vice-president, academic, said faculty must be made aware that they are not constrained in how courses can be delivered.

The meeting concluded with Senate commending CUP for bringing the strategic planning paper forward, and for its hard work and leadership. O

NO *AT GUELPH* OCT. 15

At Guelph will not publish Oct. 15. The next issue is Oct. 22. *At Guelph* staff will use the time next week to learn how to use a new desktop publishing system. If you are interested in desktop publishing and would like to see what we are doing, give us a call at Ext. 3864. O

At Guelph

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Views and opinions contained herein do not necessarily reflect official University policy. Letters to the editor, opinions, news items and other submissions are welcome. Deadline is seven days before date of issue unless otherwise specified. Stories may be reprinted with acknowledgement of source.

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Appointments

Dr. Tom Sanderson, supervisor of OVC's research station and isolation unit, has been appointed an adjunct professor in the Department of Clinical Studies. The appointment, which became effective Sept. 1, is for two years.

Letters to the Editor

Worried by censorship

As one of the speakers at the open public meeting on the selection process for the next president of the University, I am gravely worried by the report on that meeting published in *At Guelph*.

After going over what I said at that meeting for half an hour on the telephone with you, I initially assumed that the radical cuts in the printed report were the usual outcome of "cut-to-fit" journalism, but I have since become aware that the article was censored by persons in authority at this University. My own comments are seriously truncated and the thrust of the comments of several of the other speakers has been lost.

One of the themes articulated at that meeting was that there is extremely low faculty morale at this University because of the frustration of being managed and controlled by a central administration that has lost touch with the proper purposes of the institution. The fact that constructive criticism of the University undertaken at a public meeting cannot be reported in our house journal would seem to confirm that there are serious gaps between the way in which this University is running and the way in which a university ought to run.

Questions of the enforcement of principles of ethics and freedom clearly need to be addressed as the University selects its next president.

Prof. Peter Brigg,
English Language and Literature.

Censorship an affront

In a conversation with me, you agreed to include a full transcript of my remarks at the open meeting of the presidential selection committee Sept. 14.

Specific reference was made to the following exchange with the committee chair, Edmund Bovey. I asked: "Are there any political pressures placed on the committee and, if so, could you tell us what they are?" Bovey's reply was that there are none, to which I responded: "I am delighted to hear that; we will hold you to it." I was later informed that these words were censored by the Office of the Secretary of Senate and did not appear in *At Guelph*.

A report of an open meeting censored by the secretary of Senate! This is an affront to the academic and democratic character of this University. I have no doubt that this is also an affront to the committee itself and its members, who called for and intended an open solicitation of views on such a serious matter as the selection of a future president for our University.

On whose authority and on what grounds does the secretary of Senate censor the remarks of faculty or other members of the University? Restoration of confidence in that office and of "reasonable" relations between faculty and the administration requires a full classification of this travesty.

I have also written to the selection committee to express my grave indignation at this deplorable event and my deep sense that this act was not done by either intent or initiation of the committee, which, I believe, truly seeks open communication with the University community.

To ensure that this letter is published in full and not censored, a copy is being simultaneously delivered to the University of Guelph Faculty Association. I expect that all of the above, including these last words, will appear in the next issue of *At Guelph*.

Prof. Henry Wiseman,
Political Studies.

Phrase distressing

In your story on the open meeting on the presidential search, I am quoted as referring to "basic curiosity-driven research." Clearly, something happened following our conversation on the phone. I would not wittingly use the phrase "curiosity-driven research," and do not recall your quoting it to me in our telephone conversation. I can only presume it was inserted as an editorial change.

I find the increasing use of this phrase on our campus to be distressing because it shows a lack of understanding of the scientific process. Surely the basis of *all* research is curiosity. Thus, curiosity underlies both pure (basic) and applied research.

My main objection surrounds the use of the term "driven" when it is applied to basic research. I would argue that basic researchers are drawn to their science and that the whole becomes a creative process. By contrast, "driven research" implies that the major stimulus lies outside the researcher and suggests that the impetus is determined by some external agency. This approach is characteristic of what is typically referred to under a variety of names such as contract, mission-oriented or applied research.

Prof. Sandy Middleton,
Zoology.

Premium parking a bad joke

Didn't I read a short time ago in *At Guelph* that someone in an official position had stated that the new parking system was operating to everyone's satisfaction? Although I was away on sabbatical last year and missed the chance to influence the present regulations, I can't believe they reflect a consensus within the University community about how parking ought to be on this campus.

"Premium parking" is a bad joke. It merely creates an elite stratum of users prepared to pay $200 above regular rates for the privilege of avoiding their morning walk. Need has nothing to do with it. Neither does common sense.

The problem of adequate parking for faculty — who, for a variety of reasons related to research commitments and public appearances, must often come and go after everyone else has secured a spot for the day — has not even been addressed.

There is some evidence (for example, cars that are not moved all day) that a high percentage of vehicles occupying service spots "serve" only their owners' convenience — at the University's expense. By the same token, many so-called loading zones consistently operate as private parking areas.

That is not all. Several lots that once had no marked parking spots, thus allowing parkers to occupy only as much space as they needed, are now neatly demarcated with shiny yellow lines that enclose spaces all generously designed for the biggest cars the North American auto industry can produce. I estimate that 20 to 30 per cent of the parking capacity of these lots has been lost in this way. This, of course, ensures that more users are forced on to the new peripheral lots, thus "proving" that it was necessary to build them in the first place.

Perhaps the widespread silence about our new parking order has less to do with user satisfaction than with the sense that this time, the "system" has been made so absurd that rational protest has become irrelevant.

Prof. Bill Graf
Political Studies.

Divorce — it's the children who suffer

by Ann Middleton

"Divorce is often good for adults, but it's seldom good for children," says Martin Richards, head of the child care and development group at the University of Cambridge, England.

Richards, whose work on family relationships goes back 20 years, spoke on the subject of children and divorce during his two-week term as Winegard Visiting Professor in the College of Family and Consumer Studies.

Although most of his data concerned British families, Richards said divorce rates in Canada fall somewhere between the British figure of one-third and the American figure of one-half of all marriages. A dramatic change in the divorce rate first became evident immediately after the Second World War. Although the rate levelled off in the late '70s, it has not declined.

Richards said researchers attribute the post-war increase in divorce to such factors as the changing expectations of marriage, the social acceptability of divorce and the increased ability of women to support themselves and their children, either in the workforce or on welfare.

Modern couples expect their partners to provide complete emotional support — to be, in fact, their best, and often their only friend — as well as their sexual partner, said Richards. Not so long ago, couples, women in particular, relied on their families and friends for companionship and support in raising their children. This remains true in many other cultures. Dissatisfied wives and mothers frequently complain of lack of companionship and emotiunal support. In Britain, 70 per cent of divorce petitions come from women, a figure that has completely reversed in a period of 25 years, he said.

Many researchers in this area believe the divorce rate has levelled off in the past 10 years because of a growing realization that divorce has many negative effects, particularly on children and family finances, said Richards. Children are involved in 60 per cent of all divorces in both Britain and the United States.

Eighty per cent of British children in divorces remain with their mothers, 10 per cent with their fathers and five per cent see a lot of both parents, some in shared custody. The remainder live with relatives or are placed in the care of the state.

Within two years of the divorce, however, only 50 per cent uf fathers are in regular contact with their children, said Richards. Some genuinely believe their children will be better off making a fresh start. Remarriage of either spouse can disturb contact, he said, and some fathers seek to avoid support payments by cutting contact with their children.

Children frequently suffer serious consequences when the family breaks up, said Richards. In fact, studies show that the death of a father is much less emotiunally damaging than the loss of a father through divurce. (Fathers were used in the comparison study because children are more likely to lose a father than a mother through death.)

When parents divorce, children comnionly feel a sense of abandonment, said Richards. Very young children have difficulty coping with day-to-day situations of normal separation such as nursery school or bedtime. Four- to nine-year-olds feel a sense of anger that can lead to depression. An older child may informally adopt another family; a teenage girl may enter sexual relationships earlier than she would otherwise have done. Even after a violent childhood, children sometimes try to bring their parents together years after the separation, he said.

Long-term effects can include depression in adulthood and a downward social mobility, thought to be caused by school problems that diminish educational opportunities, said Richards. Children of divorced parents are themselves more likely to divorce.

The most important factor in lessening these difficulties is the maintenance of a good relationship between children and both parents, he said. A good parent-child relationship can exist without the family living in the same house.

Current social policy, however, assumes that what's good for the parents is good for the children, said Richards. "You often find access and custody arrangements that take no account of what is good for the children." He suggested using a conciliation-based system for divorcing couples, with the courtroom "the very last resort." Unfortunately, many parents use their children as weapons in the battle of divorce, he said. "Often it is the only weapon they have." O

Friends of Dr. Janet Wardlaw came from across the University community Sept. 29 to wish her well in retirement. Above, Wardlaw, left, who joined the University in 1966 and went on to became dean of the College of Family and Consumer Studies and associate vice-president, academic, unveils a gift, aided by Margaret Beckman, executive director for information technology and President Burt Matthews. Matthews described Wardlaw as "someone who has made a real difference to the University."

Photo by John Majorossy, Photographic Services.

Briefly

Drama season opens Oct. 26

The opening production in the Department of Drama's 1987/88 season is Shakespeare's "Richard III," directed by Heinz-Uwe Haus of East Berlin and designed by Allan Watts. It opens Oct. 26 at 8 p.m. at the Inner Stage and cuntinues until Oct. 31. Admission is $4 Monday to Wednesday and $5 Thursday to Saturday; a special preview Oct. 25 at 3 p.m. is $2.50. Tickets are available at the University Centre box office and the Bookshelf Cafe.

Art care clinic offered

The Macdonald Stewart Art Centre will offer a special art care clinic during its seventh annual open house Oct. 25. Professional conservators will be on hand to help identify problems and give advice on caring for oil, tempera and acrylic paintings, watercolors, prints, drawings, manuscripts, music sheets and books. A fee of $2 for members and $3 general will be charged per two-iteni consultation. To reserve a consultation time, call 837-0010. The art centre's open house is from 1 to 4 p.m.

What's new in biology?

The College of Biological Science's Thursday seminar series focusing on what's new in biological research continues Oct. 8 at 1 p.m. in Room 102 of the J.D. MacLachlan building with the topic "The Mechanical Engineering of Plants: Is Nature a Better Engineer Than Man?" Guest speaker is Dr. Karl Niklas, associate professor of botany in the division of plant science at Cornell University. Niklas is the recipient of numerous scientific awards, including a Guggenheim Fellowship to study the morphological regulation of pollination in plants. His research interests lie in the area of the biomechanics and hiophysics of plants and plant organs, as well as the evolutionary history of such structures. Anyone wishing to meet with Niklas should call Prof. Doug Larson, Botany, Ext. 2679 or 6008.

Gerontology seminar

The Gerontology Research Centre presents a seminar on "The Functional Effects of an Exercise Program on Retirement Home Particiipants" Oct. 15 at 12:10 p.m. in Room 429 of the University Centre. Guest speaker is Prof. Susan Pfeiffer, School of Human Biology. Prior to the seminar, the Gerontology Research Council uf Ontario scholarships will be presented.

Focus on U.S. farm policy

Dr. Robert Thompson, dean of agriculture at Purdue University, will discuss "The Reality of Agricultural Policy Formation in Washington" Oct. 7 at 1:10 p.m. in Room 441, University Centre. The lecture is sponsored by the Department of Agricultural Economics and Business.

Butterfly lovers welcome

At the next meeting of the Guelph Field Naturalists Oct. 8, Kathy Dunster of the School of Landscape Architecture will discuss "Butterflies and Gardening for Butterflies." She will explain how to attract the insects to your garden. The meeting begins at 7:45 p.m. at The Arboretum Centre.

Cellist performs

Guest performer in the Department of Music's Thursday noon-hour concert Oct. 15 is cellist Mihai Tetel. Born in Romania, Tetel holds a bachelor's degree in music performance from the University of Toronto and a master's degree from the Juilliard School.

Tetel has appeared as a soloist with numerous orchestras, including the Montreal, Toronto and Edmonton symphonies and the Calgary Philharmonic. He is the 1987 winner of the Artists International Competition, receiving a fully sponsored Carnegie Hall recital debut in December 1987. In May 1986, he won first prize in the Koussevitsky Competition.

Tetel currently teaches in New York City and holds the principal cello position in the Greenwich Symphony Orchestra. He is also a member of the Greenwich Chamber Players. Program I at 12:10 p.m. in Room 107, MacKinnon building, will consist of "Intermezzo" by Granados, "Divertimento" by Haydn, "Five Pieces in Folk Style" by Schumann and "Tarantelle" by Popper. Program II at 1:10 p.m. features "Variations on One String" by Paganini, "The Jet Whistle" by Villa-Lobos, "Elegy" by Mann and "Zapateado" by Sarasate. Admission is free.

Keep in touch with NetNorth

NetNorth can serve you during the mail strike. Communications Services is offering an efficient way to send electrunic mail to other Canadian universities and colleges. All members of the NetNorth consortium are being encouraged to establish procedures during the mail strike, for electronic mail to be collected and distributed by the postmaster located at each institution. If you wish to send mail to other institutions, CS will forward it, provided that you supply formatted files using, for example, WordPerfect or WordStar. For help, call Ext. 4357.

Famine relief discussed

Dr. Maureen Yates, who worked for 13 years on famine relief and rehabilitation in east Africa, will discuss "The Hunger Gap: Agricultural Development in Areas Prone to Famine" Oct. 14 at 7 p.m. in the FACS building lounge. The talk is sponsored by Inter-Varsity Christian Fellowship.

Dramatist gives reading

Playwright Anne Chislett, winner of the 1983 Governor-General's Award for drama and the 1982 Chalmers Canadian Play Award, will give a public reading Oct. 8 at 1:10 p.m. at the Inner Stage in the MacKinnon building. She is co-author of *Anather Season's Promise*, which is being presented at War Memorial Hall tonight. Her latest play, *Half a Chance*, premiered last summer at the Lighthouse Festival in Port Dover. The reading is funded by the Canada Council; admission is free.

Art classes for children

A series of Saturday art classes for children will run for eight weeks at the Macdonald Stewart Art Centre, beginning Oct. 10. The program includes work in sculpture media and outdoor sketching. Session "A", for ages five to seven, is from 10 a.m. to noon. Session "B", for ages eight to 10, is from 1:30 to 3:30 p.m. Cost is $37.50 for centre members, $45 general. Register in person at the centre's information desk.

Graduate News

The final oral examination of Ronald Frederick Carter, Pathology, a candidate for the doctor of philosophy degree, is Oct. 14 at 10:15 a.m. in Room 2635, OVC main building.

The thesis is: "Cell Types in Canine Lymphoma: Morphology, Morphometry, Phenotypes and Prognostic Correlations." Carter's supervisor is Prof. V.E.O. Valli.

Interested members of the University community are invited to attend. O

Grants available from Centre for Information Technology Research

The Centre for Information Technology Research provides seed grants up to $4,000 for research projects exploring innovative applications of information technology.

Previous grants have supported projects in areas such as advanced tutoring systems, expert systems for veterinary medicine and databases for the humanities. Grant funds can be used for travel costs, staff support and equipment purchase.

Grant applications are due Nov. 1, with decisions by Dec. 1. Researchers should ensure their application includes a clear definition of the innovation to be developed, comparisons with other related work and plans for ongoing support if a seed grant is received.

Requests for travel funds must include an explanation of the related research project, planned or under way, and the relevance of the travel to the project.

Applications should be sent to the Centre for Information Technology, care of the executive director for information technology. Questions concerning applications should be addressed to the information technology co-ordinator of your college, or to Prof. Tom Carey, chair of the centre's steering committee, Ext. 3310, tcarey on CoSy. O

The United Way needs your suppo

When you support the United Way, you're helping a child with cerebral palsy learn to ride a horse, you're supporting a volunteer reaching out to a dying man, you're helping a woman with multiple sclerosis continue to live at home, and you're helping a young man get a job.

The University of Guelph is the largest single donor to the Guelph United Way campaign. This year, the goal of the campus canvass is $110,510, up from last year's target of $86,250. The city-wide goal is $727,635. Guelph staff and faculty are generous supporters, and last year the University exceeded its target by more than $4,000.

Campus committee chair Don McIntosh has the support of 27 area co-ordinators and more than 100 canvassers, who begin their visits Oct. 8. A thermometer in Branion Plaza will monitor campus donations.

United Way donations are tax deductible and may be made through payroll deduction. People who work on campus but live out of town can designate their contributions to their own community.

The United Way supports 60 programs run by 24 member agencies, all serving the Guelph community. People at the University of Guelph not only work with most of these agencies, they also benefit from them. The following articles feature just a few of the 24 agencies that volunteer dollars support.

Providing support for women and children at risk

"I work with Women in Crisis because it brings to light a rather hidden subject — one people don't like to think about," says Prof. Susan McIver, chair of Environmental Biology. "It is important that we provide a service and that people become aware of the immensity of the problem."

McIver is on the board of Women in Crisis, an organization that provides help to women who are physically, emotionally and sexually abused.

United Way dollars support Marianne's Place, a house where abused women and their children receive shelter for days or weeks if necessary. Money also helps fund 24-hour crisis lines, an emergency shelter program for rural women, a rape crisis centre and a sexual assault centre.

Fellow board member Katherine Elliott of the University's Counselling and Student Resource Centre says there is a need to educate people as much as possible so the patterns of domestic violence can be broken. Women in Crisis provides speakers to community groups and also sponsors a series of readings and speakers to raise funds as well as awareness.

Graphic designer Klari Kalkman works with the Central Student Association, but she also puts in a lot of hours for Women in Crisis as chair of the board. The board oversees the activities of 18 staff members who work in the organization's programs.

Volunteers work for organizations in which they have a firm commitment. But they also speak of the personal growth they gain through their volunteer hours. Kalkman points to the strengthening of leadership and interpersonal skills gained in her board work. "You get personal benefits from the very hard work you put into the organization, particularly if you have some personal goals when you come in," she says.

Independence difficult for multiple sclerosis sufferers

Joanne is 35, married with two children. She doesn't work outside the home because she doesn't have the energy. In fact, after she makes the bed, she needs to rest for an hour. She is able to manoeuvre around her house with the aid of a walker, but before she started to use it, people thought she drank. The drunken gait and the exhaustion are typical of multiple sclerosis sufferers.

Joanne would like to prepare dinner for her family, but if she did, she would be too tired to eat it. Sometimes she heats up a frozen meal from the store. Other nights her 12-year-old makes hamburgers, and three days a week a homemaker comes in to do light housework and prepare the meals. Heavy housecleaning is done by her husband on the weekends.

Joanne is not a real person; she is a composite of many sufferers of MS, as the disease is commonly called. It strikes women more often than men, and often leads to a gradual deterioration in health. Multiple sclerosis is a disease of the central nervous system, affecting the brain's ability to control walking, talking and vision. Some people have one attack and never have another. Others are affected for a short time and then the symptoms disappear, only to return in another form months or years later.

Peggy Coghlan, executive assistant to the director of the School of Engineering, is chair of the Guelph Multiple Sclerosis Society. Her husband, Peter, has MS. Formerly a research engineer, he is now unable to work and gets around in a wheelchair. An active member of the society, he speaks to community groups and nursing students, and also benefits from the organization's swimming program.

United Way funding helps the society provide equipment and services that help patients stay in their own homes. It pays for a hairdresser for a housewife who is unable to wash her own hair. It defrays the cost of housekeepers. It provides lifts to help people move from wheelchair to bed, shower or chair. The agency also encourages other community organizations such as service clubs to fund specific projects and equipment.

"We try to provide a support system to keep people at home," Peggy Coghlan says.

Support for the dying and bereaved

Retired botany professor and former University United Way chair Hugh Dale is one of 50 volunteers who give their time to Wellington Hospice Care. The organization provides support to the dying and bereaved as well as education on the needs of the dying.

Hospice volunteers take a course given by the association through Conestoga College. The 12 evening sessions deal with such issues as pain control, spiritual aspects of dying, problems suffered by AIDS patients and various approaches to death.

Client co-ordinators match clients and volunteers on the basis of age and situation. It is not unusual, for example, for a young person whose spouse is dying of cancer to be matched with a volunteer who has been through the same experience, although it is not always possible or even desirable to make such a close match. If volunteer and client do not take to one another, a second match will be made.

One of the aims of Hospice is to give the primary care givers much-needed rest during the period the client is dying — a period that can extend into weeks, months or even a year.

Dale says one of the most frustrating aspects of the volunteer's job is getting called in after the family support system is exhausted and death is very close. "We feel then we haven't been able to contribute much." Another problem for volunteers is burn-out. "Sometimes they just have to take a respite," he says.

United Way is Hospice's main source of income. The funds pay office operating expenses and salaries for the part-time client co-ordinators. The group's only other support comes from bequests and gifts from grateful families. ○

Focus on ability, not disability

"The United Way is very, very important to us," says Ann Caine of the Sunrise Equestrian and Recreation Centre, one of the newest agencies to receive funding. "The United Way provides operating funds, which are always difficult to raise, and ties us in with the community," she says.

Unlike most organizations, Sunrise serves an extremely diverse slice of the community. Children and adults with physical, learning and emotional handicaps learn to ride and benefit from the human-animal companion bond. Sunrise is part of a much larger movement in Europe and North America dedicated to improving the quality of life and health of the disabled.

The association belongs to the provincial and federal therapeutic riding associations and International Riding for the Disabled. Princess Anne is patron of the Canadian, British and international organizations.

Caine says therapeutic riding associations emphasize ability, rather than disability, and give participants a sense of achievement rarely found in their everyday lives.

Children with Down's Syndrome, blind and hearing-impaired adults and children, people with cerebral palsy and a whole range of other physical and mental handicaps enjoy riding and benefit from structured and progressive programs of physiotherapy. Eighty people are currently participating in the program, which is run with a staff of four and 60 volunteers. Horses are usually lent or donated, but a barn and arena must be rented, and costs for equipment, feed and rent are substantial.

One group of young people who derive special benefit from riding are cerebral palsy victims, who often have poor muscle control. The warmth of the animal's body (equine temperature is two Fahrenheit degrees higher than human temperature) and the movement of the horse relax and tone the muscles, and can have long-term benefits on the rider's muscle control. To derive full benefit from the horse's warmth, riders sit on sheepskin rather than a saddle.

Children and adults alike befriend their horses and instructors, although some don't learn to ride. One young autistic man watched the riders and occasionally patted the animals for 18 months before actually climbing on a horse.

Ann Caine, who is OVC's nursing care administrator, is typical of this University's cohort of volunteers. Dedicated to her job, where she supervises 25 staff and teaches surgical techniques, and busy with her family, she still finds time to put many hours into Sunrise. She says Sunrise receives much support from OVC; the dean, staff, students and faculty members all contribute to the program.

United Way canvassers get a "how-to" lesson from campus chair Don McIntosh, OEP, and Marissa Phillips, Registrar's Office. Left to right: Helen Martin, director's office, OEP; Susan Hersey, Photographic Services; Ken Cooke, Technical Operations, OEP; and Laura Peters, Continuing Education.
Photo by Herb Rauscher, Photographic Services

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Ted Croftchak, Central Student As
Virginia Gillham, Library
Gerry Hofstra, Environmental Biol
Gabrielle Hubert, Registrar
Marisa Phillips, Registrar
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Adrian Delyzer	6740
Marion Lamport	6596
Pamela Healey	6581
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Speeches

OVC urged to get involved in animal welfare issues

The following is an edited version of "The Animal Welfare Bête Noire in Veterinary Medicine," a speech given by Dr. Franklin Loew, dean of veterinary medicine at Tufts University, Massachusetts, for the 1987 Schofield Memorial Lecture at OVC Sept. 25.

On every significant issue of our time related to "animal welfare," organized veterinary medicine has been amazingly reluctant to engage itself. Even the Canadian Veterinary Medical Association's committee on humane practices tends to react to issues rather than to lead. And individual veterinarians or others who speak out are often viewed with the suspicion that is usually reserved for old men who sleep on park benches.

All of us in veterinary education know that students attracted to this profession today tend to have two things in common — virtually all of them have wanted to become veterinarians "ever since" they can remember, and virtually every one of them professes to "love animals" or at least to "love" working with them. It is therefore even more remarkable that this profession has been so inactive, and so ineffective, in the field of animal welfare.

Cornerstones of medicine

The prevention, diagnosis and treatment of animal disease or injury constitute the cornerstones of veterinary medicine. When Dr. Francis Schofield noted in the 1923 *Report of the Ontario Veterinary College* that a "somewhat mysterious disease of cattle" was being reported to the college by local veterinarians, he set about making appropriate recommendations. In the tradition of Louis Pasteur, Cooper Curtice and Robert Koch, he studied what turned out to be the first documented mycotoxicosis in man or animals because it was an important scientific and agricultural issue.

Service has always been the most visible motive of those entering this profession. One hundred years ago, the veterinary surgeons of the then Northwest Mounted Police were being asked to perform post-mortem examinations on rabbits in the Northwest Territories to see if there was a disease in them that could be spread among the rabbits introduced in Australia, already becoming a problem. This was the first attempt at finding a biological method of pest control, nearly a half-century before the introduction of myxomatosis to Australian rabbits.

Numerous other examples could be given of veterinary medicine's honorable and essential role in Canada's and the world's scientific agriculture and medicine. Even the much-lauded Canadian physician Norman Bethune found it necessary in his career to study the diseases of laboratory rats in connection with his interest in human chest diseases.

But yet, on the eve of the 21st century, there lurks an uneasiness in individual veterinarians and their organizations related to the emerging public interest in what has been called "animal welfare" or even "animal rights." When the U.S. revolutionary war physician and one of the founders of the modern medical and veterinary medical professions, Benjamin Rush, wrote his important 1807 essay "Upon the Duty and Advantages of Studying the Diseases of Domestic Animals," he listed several reasons for doing so. Chief among these was our "duty" toward animals, as creatures subject "to death and all the diseases and pains which they feel in common with us."

Compassion for suffering

From the modern roots of the profession — Lyon in 1762 and the Ontario Veterinary College a century later in 1862 — compassion for the suffering of animals has been a prime raison d'être as well as motivational force for veterinary medicine. Even scientists close to veterinary medicine, like Pasteur, were not reluctant to make this compassion known.

And by the time Darwin's 1859 ideas of lineage of animals and man and the origin of species became widespread in the 1860s and '70s, the veterinary schools of North America, including this one, had to balance themselves carefully between the Victorian sensibility regarding animal pain and suffering and a headlong rush to incorporate the burgeoning science of infectious agents emerging from European medical and veterinary medical schools. Indeed, people had to discard the old and convenient belief that humans and animals had virtually nothing in common; they had to "reckon with the beast" in new ways. The inescapable conclusion that animal pain was probably qualitatively similar to human pain had to be dealt with.

The veterinary profession has alternately coveted and spurned becoming significantly involved in controversial issues regarding animals. Indeed, the organized profession has always been wary of so-called humane societies. The Ontario Veterinary Association regularly worried about the "intrusions" of the Ontario and Toronto humane societies in the 1920s and '30s.

What accounts for the profession's clear reluctance to study and act on controversial animal welfare issues such as the care and use of laboratory animals, intensive livestock practices or hunting and trapping? I believe that the veterinary profession underwent two modifications of organizational and professional behavior in the last part of the 19th century and the first part of this one, which account for this reluctance and influence it even as I speak.

During the heady achievements of the golden age of medical research from 1875 to 1900, it soon became clear that medical practice was valued more — in monetary terms — for human patients than for animal patients. People, not unreasonably, spend more on themselves than on other beings.

Patina of respectability

Thus, although human and veterinary research often overlapped, practice didn't. And veterinary practitioners, anxious to acquire and retain the patina of respectability that the formerly pedestrian human medical profession began to enjoy, reacted by tryng to become even more scientific than physicians. This was particularly true as the horse population, previously the mainstay of urban veterinary practice, declined in the first quarter of this century and veterinary practices suffered.

Veterinarians, forgetting or ignoring their professional roots in compassion, strove for professional respectability by virtually denying emotion or compassion or emphasizing objectivity.

The human medical profession was beginning to realize that research — often research on animals — led directly to improvements in its practice. The Canadian work on insulin is an obvious example. Thus, when the human societies that were traditionally concerned with cruelty to pets, draft horses and livestock turned some of their attentions to what were at that time very real abuses of laboratory animals, physicians reacted defensively and badly. Every critic, however moderate, was branded a know-nothing or worse. Ever desirous of professional respectability, veterinarians followed suit, even though humane societies should and might have been their strongest allies.

When the Ontario Veterinary Association became "disturbed by seeming incursions" of the Toronto Humane Society in the 1920s, I believe they confused the messenger with the message.

Serve as forums

The message, then and now, is that people care deeply about the ways in which animals are generally cared for, not just about their injuries and diseases, important as these are. And in my opinion, veterinary schools and colleges should serve as forums where issues related to animals and their welfare are widely discussed, especially in view of the difference between urban and rural views of animal life.

Some of the most important current animal welfare issues relate to the use of animals in research, the raising of livestock under confined conditions, the racing of young horses, and hunting and trapping. There are legitimate scientific and veterinary medical questions in need of answers in connection with all of these issues.

In the case of the use of animals in research, how should research be evaluated in terms of any animal pain, discomfort or suffering? Are our veterinary schools and colleges not only providing time for their students to discuss these issues but also evaluating their own teaching and research programs? I hope the answers to both are "yes."

To me, however, the most problematic issue of all is that of intensive livestock production. Far more animals are used for food than for any other purpose. For two centuries, the goals of livestock production have been increased total production by genetic and environmental means and increased efficiency of production, especially in terms of labor and space. I believe there is now a third goal emerging — a meeting of the animal's behavioral needs and the need to concern ourselves more with pain prevention or relief.

Why, for example, do veterinarians usually surgically remove unwanted horns from adult cattle without anesthesia? I am told that part of the answer lies in the costs to the farmer of paying for the extra time required to administer the local anesthetic. Now, cost is a perfectly legitimate issue in health care delivery, human or animal, but should it really be an issue in painful procedures? Or if it is, who ought to make the decision?

When is cost too high?

In making animal research decisions, the usual rule is that anesthesia or analgesia must be provided in painful experiments unless their provision would interfere with the purpose of the research. In animal agriculture, it appears that pain relief can be trumped by cost. If that is the case, how best ought society decide when that cost is really too high?

The racing of young horses or of horses with painful arthritic conditions requires more veterinary scrutiny. As both thoroughbred and standardbred racing's share of the North American gambling dollar declines, there is even greater pressure to fill races at most tracks. This means that more horses than are necessarily able to must run. The profession is divided over the use of anti-inflammatory and other drugs in race horses for the purpose of enabling them to run when they otherwise couldn't.

We have been reluctant to openly discuss these and similar issues, and in so doing, we risk losing society's respect in the increasingly political and newsworthy animal welfare arena. Veterinary medicine needs to exorcise the bête noire from its belly and lead, not follow, society's evolving relationship with its fellow creatures.

In January 1987, a public opinion research firm surveyed residents of southern Ontario on a number of animal protection issues. Almost half the respondents opposed all animal testing of cosmetics and household products; more than half said that "animals are used too often, and whenever possible researchers should be required to use other types of testing methods." Even more recently, a Gallup-Canada poll showed that 73 per cent of Ontario residents are aware of the animal rights movement and 40 per cent are sympathetic with its goals.

None of what I have said should be construed as urging veterinarians to give turtles the vote. There are cultural, economic and scientific issues that need to be studied as well. I merely urge our profession to temper its science with the compassion and commitment to study issues such as pain and suffering, animal behavior and the ethical treatment of animals.

Innate modesty

Part of our bête noire has been our profession's innate modesty and understatement. Although pediatricians are not seen as self-serving profiteers when they advocate on behalf of child health or against child labor, many veterinarians feel that for veterinarians to advocate on behalf of animals is somehow self-serving. This seems wrong-headed to me, and perhaps a bit spineless. After all, the public looks to us for guidance and leadership on nearly all other animal-related matters.

I applaud the efforts of OVC to establish a chair in animal welfare. Animal welfare is *the* most important veterinary issue of the late 20th century.

According to the Food and Agriculture Organization, there are 1.3 billion cattle in the world, some 65 million horses, just under a billion swine and nearly 1.7 billion sheep and goals. With what I would guess is a world total of fewer than 120,000 veterinarians, there is obviously much for us all to do. If "preventive medicine," "population medicine" or "herd health" are the phrases we use to deal with the medical dimensions of large numbers of animals, then perhaps "animal policy studies" could be used to describe veterinary involvement in animal welfare issues. The profession needs to embrace it as being worthy of study and discussion.

With few exceptions, individual veterinarians have neither led nor even participated in the movements for humane slaughter, laboratory animal welfare or even humane livestock transport. And veterinary medical organizations have often even actively opposed such measures, invoking such arguments as the need for "more study" or the burden of "excessive costs." Why is this? Because we have felt that in so leading or participating, we would somehow lose standing with our clients who are ranchers or farmers or our fellow health professionals such as physicians or medical researchers.

Veterinary medicine, especially academic veterinary medicine, has much to offer society as it struggles to come to grips with controversial animal-related issues. And universities ought to be the very places where all points of view are heard and individual ideas are forced to compete in a marketplace of ideas.

Shortly after moving to Tufts, I established the Tufts Centre for Animals and Public Policy. It has taken on controversies such as deer hunting in suburban areas, pet population control, the ethics of animals in research and even dog bites as public health threats. In every case, we have studied them in a scholarly fashion and provided data, research findings and informed opinion to elected and appointed officials, media professionnals and policy makers. And in every case, the fact that we are a veterinary school in a university made us the most respected and valued source in the controversy.

In conclusion, I urge OVC to help the profession deal with animal welfare as well as it has dealt with infectious disease, surgery and clinical medicine. Make it a legitimate issue and subject in the panoply of proper veterinary subjects, and use the college's presence in the midst of a fine university to serve the public's interest in issues while at the same time serving animals themselves. ○

At Guelph is now publishing news of faculty, staff and student activities. A "Speeches" column has also been introduced. If you have given a speech recently — or read one that is relevant to the University — send it to *At Guelph*.

Submissions are also being sought for the new "Dialogue" column, which is a place for editorial articles submitted by any member of the University community.

Send all submissions, which should be typed, double spaced, and signed by the correspondent, to *At Guelph*, Public Relations and Information, Level 4, University Centre. ○

Our people

Margaret Beckman, executive director for information technology, will receive an honorary doctor of laws degree from the University of Western Ontario Oct. 29. The honor is in recognition of her contributions to the library profession. As chief librarian at Guelph from 1971 to 1984, Beckman directed the development of the Geac library system. She has lectured and led workshops on library management and building planning, as well as automated library systems, around the world, and has been a planning adviser to many public and university libraries in Canada and abroad. In 1986, Beckman was the first Canadian to receive the American Association of College and Research Libraries' Academic Librarian of the Year Award.

Prof. **Tom Carey**, Department of Computing and Information Science, will be a guest on the TVOntario (Channel 19) series "The High-Tech Prescription" Oct. 9 at 8:30 p.m. Carey will be commenting on the impact of expert systems in medicine.

Prof. **Barry Millman**, Department of Physics, has been appointed to the Natural Sciences and Engineering Research Council's selection committee for cell biology and genetics, for a three-year period.

Judy Arlen, Photographic Services, and her family would like to thank all who made contributions to the Joseph Arlen Memorial Horticultural Fund in memory of her husband. Joseph Arlen pursued studies at OAC for three years before entering the department of engineering at the University of Toronto in 1960. The Arlen family expresses appreciation to the University community for the sympathy and understanding expressed during their bereavement. Anyone wishing to contribute to the fund should contact Judy Arlen at Ext. 3641. ○

Coming events

WEDNESDAY, Oct. 7

Fashion Show - Establo Fashions, noon, UC courtyard.
Worship - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5; Great Commission Students fellowship meeting, 7 p.m., FACS 17B.
Lecture - "The Reality of Agricultural Policy Formation in Washington," Robert Thompson, 1:10 p.m., UC 441.
Cycling Club - Maryhill (novice ride), 25 miles, 5 p.m., UC south doors.
Macdonald Stewart Art Centre - Annual general meeting, 7:30 p.m., art centre lecture room.
Drama - "Another Season's Promise," 8 p.m., War Memorial Hall, $9.50 to $11.50 general, $8.50 to $10.50 students/seniors.

THURSDAY, Oct. 8

Instructional Development Workshop - "What Constitutes an 'A' in My Course?" 10 a.m., Animal Science 141.
Pathology Seminar - "Aspects of the Permeability Barrier in the Skin of Small Cetaceans," Lenore Latta, 11:10 a.m., Pathology 220.
Worship - Meet and Eat, noon, UC 335; Social Evening, Ecumenical Campus Ministry, 5 p.m., Mature Students Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Social Evening, Roman Catholic Ministry, 6 to 9 p.m., UC 335.
Psychology Colloquium - "Disparity in Depth, Parallax in Perspective," Brian Rogers, noon, MacKinnon 231.
Society for International Development - "A Better World" — "Experiences in St. Lucia," Linda Szeto, noon, MacKinnon 132.
Concert - Trio Vivant, violin, cello and piano, 12:10 and 1:10 p.m., MacKinnon 107, free.
Biology Seminar - "The Mechanical Engineering of Plants: Is Nature a Better Engineer Than Man?" Karl Niklas, 1 p.m., J.D. MacLachlan building 102.
Public Reading - Anne Chislett, 1:10 p.m., MacKinnon 101.
Skills Training Series - "Starting a Country Program," 7 to 10 p.m., UC 332, $2.50.
Football Game - Waterloo at Guelph, 7 p.m., Alumni Stadium.
Guelph Field Naturalist - "Butterflies and Gardening for Butterflies," Kathy Dunster, 7:45 p.m., Arboretum Centre.
Lecture - "The Importance of Biological Agriculture in a World of Diminishing Resources," Hardy Vogtmann, 8 p.m., Land Resource Science 124.

FRIDAY, Oct. 9

Worship - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Ecumenical Holy Communion, 1:10 p.m., Chapel.
Lecture - "One Year After Chernobyl: Implications for the Food Supply," Hardy Vogtmann, noon, UC 103.
Pub - African Students' Association, 9 p.m. to 1 a.m., UC 103, free.

SUNDAY, Oct. 11

Cycling Club - Aberfoyle, 30 miles, 10 a.m., UC south doors.
Worship - Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry (Anglican, Presbyterian, United, Lutheran), 10:30 a.m., Chapel, UC Level 5.
Arboretum - Sunday Afternoon Walk, "Migration," 2 p.m., J.C. Taylor Nature Centre.

MONDAY, Oct. 12

Schedule of Dates - Thanksgiving Day, no classes scheduled.
Worship - Catholic Mass, 5:10 p.m., Chapel, UC level 5.

TUESDAY, Oct. 13

Discussion - "The Learning Objectives: What do They Mean for My Teaching," noon, MacKinnon 132.
Worship - Christian Issues and Apologetics, noon, UC 103; Roman Catholic Mass, 12:10 p.m., Chapel, UC Level 5; Bible Study, 7 p.m., UC 332; Inquiry into Catholicism, 4:10 p.m., Room 335, UC; Faithfully Curious, 5 p.m., UC 335.
Our World - "The Dispossessed," 12:10 p.m., UC 442.
Botany Seminar - "Plant Parental Strategies," 3 p.m., Botany/Genetics/Zoology 117.
Physics Seminar - "Spectroscopy of High-L Rydberg States of H_2: A Sensitive New Probe of the H_2 Molecular Ion," Stephen Lundeen, 4 p.m., MacNaughton 113.
CUSO - Information Meeting, 7:30 p.m., UC 441.

WEDNESDAY, Oct. 14

Display - World Food Day, 10 a.m. to 4 p.m., UC courtyard.
Concert - Contemporary Dancers, noon, UC courtyard.
Biochemistry Seminar - "Bacterial-Induced Plant Growth Promotion," 12:10 p.m., MacNaughton 222.
Worship - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5; Great Commission Students fellowship meeting, 7 p.m., FACS building 17B.
Cycling Club - Fife Road —Marden, 25 miles, 5 p.m., UC south doors.
Information Meeting - Northern Studies Committee of the Research Board, 5 p.m., UC 442.
Lecture - "The Hunger Gap: Agricultural Development in Areas Prone to Famine," Maureen Yates, 7 p.m., FACS lounge.

THURSDAY, OCT. 15

Career Fair - "International Development Career Opportunities," 8 a.m.. to 4 p.m., UC courtyard.
Pathology Seminar - "Adaptation of Dot Enzyme Immunoassay in an Investigation of Humoral Immune Response to *Ureoplasmo diversum*," Cornelia Kreplin, 11:10 a.m., Pathology 220.
Instructional Development Demonstration - "Picture-It and Freelance Plus," noon, Blackwood Hall 211.
Psychology Colloquium - "Computer-Aided Instruction from the Perspective of the Published Amateur," Jay Allen, noon, MacKinnon 238.
Society for International Development - "A Better World" — "Role of the Dairy Industry in the Food Supply of China," Bruce Stone, noon, MacKinnon 132.
Worship - Meet and Eat, noon, UC 335; Ecumenical Campus Ministry, 5 p.m., Mature Students Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Social Evening, Roman Catholic Ministry, 6 to 9 p.m., UC 335.
Concert - Jeff Healy Band, noon, Peter Clark Hall, free.
Concert - Mihail Tetel, cello, 12:10 and 1:10 p.m., MacKinnon 107, free.
Gerontology Seminar - "A Study of the Functional Effects of an Exercise Program on Retirement Home Participants," Susan Pfeiffer, 12:10 p.m., UC 429.
Biology Seminar - "The Fate of Genetically Engineered Microbes in the Environment," Ron Atlas, 1 p.m., J.D. MacLachlan 102.
World Food Day - "The Family Farm Under Siege: an International Struggle," 7:30 p.m., UC 442.

FRIDAY, Oct. 16

Schedule of Dates - Last day for submission of student petitions, second meeting.
Worship - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Ecumenical Holy Communion, 1:10 p.m., Chapel, UC Level 5.
Current Issues in Agriculture - "Crops as Energy Sources," Lambert Otten, 3 p.m., Crop Science 121.

SATURDAY, Oct. 17

Guelph International Film Festival - "Workshop on the Homeless in Ontario," 9 a.m. to 5 p.m., Macdonald 149.
Football - Toronto at Guelph, 2 p.m., Alumni Stadium.
Dance - "Les Ballets Jazz," 8 p.m., War Mem Hall, $10.50 to $13 general, $8.50 to $11.50 students/seniors.

SUNDAY, Oct. 18

Cycling Club - Everton, 27 miles, 10 a.m., UC south doors; Bike Workshop, 2 p.m., 61 Tiffany St. W.
Worship - Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry (Anglican, Presbyterian, United, Lutheran), 10:30 a.m., Chapel, UC Level 5.
Collectables Fair - 1 to 6 p.m., Peter Clark Hall.
Arboretum - Sunday Afternoon Walk, "Autumn Day in the Arboretum," 1 and 3 p.m., J.C. Taylor Nature Centre; Concert: windwood, flute and marimba duo, 2:30 p.m., Arboretum Centre, free.

MONDAY, Oct. 19

Ethics in Development - "Technology and Development," O.P. Dwivedi and Eleanora Cebotarev, noon, UC 103.
Worship - Catholic Mass, 5:10 p.m., Chapel, UC level 5.

TUESDAY, Oct. 20

Worship - Christian Issues and Apologetics, noon, UC 103; Catholic Mass, 12:10 p.m., Chapel; Bible Study, 7 p.m., UC 332.
Our World - "India: Eclectic Cultures. A Look at the Cultures of this Diverse Sub-continent," 12:10 p.m., UC 442.
Engineering Seminar - "Kinetics of Meat Aging," Kwabena Boakye, 3:10 p.m., Thornbrough 110.
Physics Colloquium - "How We and Chlamydomonas See Green," Kenneth Foster, 4 p.m., MacNaughton 113.
Volleyball - Toronto at Guelph, men and women, 7:47 p.m., Athletics Centre.
Senate - Meeting, 8 p.m., MacNaughton 113.FL

WEDNESDAY, Oct. 21

Concert - Hugh Marsh, noon, War Mem Hall, free.
Biochemistry Seminar - "Studying Proline Porter II in *Escherichia coli*: Stress Brings Success," 12:10 p.m., MacNaughton 222.
Worship - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5; Great Commission Students Fellowship Meeting, 7 p.m., FACS 17B.
Botany Seminar - "Growth and Development of Winter Rye at Low Temperatures," Dalia Kudiska, 3 p.m., Botany/Genetics/Zoology 117.
Cycling Club - Puslinch Lake, 29 miles, 5 p.m., UC south doors.
Speaker Series - "Living in the Killing Fields," Dith Pran, 7:30 p.m., War Mem Hall, $6.50 general, $5.50 students.

Job opportunities

As of *at Guelph* deadline Oct. 2, 1987, the following opportunities were available:
Secretary II, Crop Science. Salary range: $303.42 minimum; $350.66 job rate (level 5); $436.76 maximum.
Secretary I, Psychology Department; temporary part-time, mid-October to Dec. 31/87. Salary: $7.90 per hour.
Analyst I, Application Services, Computer Services. Salary range: $24,123 minimum; $30,154 midpoint; $36,185 maximum. Normal hiring range: $24,123 to $28,345.
Secretary/Clerk, Land Resource Science; temporary full-time grant position. Hiring range: $276.64 to $300.60 per week.
Research Technician, Veterinary Microbiology and Immunology; grant position. Hiring range: up to $449.91 per week.
Technician, Department of Nutritional Sciences; temporary full-time from Oct. 13/87 to Aug. 31/88. Hiring range: $353.20 to $382.66 per week.

The following positions were available to on-campus employees only:
Custodian 2, Housekeeping Department. Job rate: $10.27 per hour; probation rate: $ .20 per hour lower than job rate.
Custodian 4, Housekeeping Department. Job rate: $11.20 per hour; probation rate: $ .20 per hour lower than job rate.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, contact employment services and training, Level 5, University Centre, or telephone 836-4900.

Foll fashions came to the Whippletree Restauront Sept. 29 for o special fashion show/luncheon. Jeff Miltan, assistont manoger of the Whippletree, soys there was o full house for the event, orranged to raise public owareness of the campus eating focility. Milton, who hopes to hold a fashion show every season, wants to encourage peaple downtown to patronize the Whippletree. The fashion show is one of severol new directions ot the restaurant, including a new decor and menu.
Photo by Barbara Chance, PRI.

Intercollege activities fund at work

The new intercollege activities fund is helping to bring a number of outstanding visitors to the University, says Graduate Studies Dean Doug Ormrod.

Seven awards have been made so far to help sponsor academic activities that will involve faculty and students in two or more colleges. Most of the awards are to help with travel and subsistence costs of visitors.

The School of Landscape Architecture and the University School of Rural Planning and Development received $931 to assist with expenses for the visit of Dr. Graeme Hardie of North Carolina State University, a noted architect and anthropologist who works on the theoretical and applied problems of building new human settlements for the black populations in southern Africa.

The College of Biological Science, supported by OAC, OVC and the Department of Physics, received $2,921 to assist with expenses for the visits of Drs. Michael Little of the State University of New York at Binghamton, Karl Niklas of Cornell University, Ron Atlas of the University of Louisville, Peter Hochachka of the University of British Columbia and Dr. Tak Mak of the Princess Margaret Hospital in Toronto. All of them are participating in the College of Biological Science's fall seminar series.

The Centre for Soil and Water Conservation, supported by the Department of Nutritional Sciences and OAC, received $570 to assist with the visit of Dr. Hardy Vogtmann of the University of Kassell, Germany, who is a leading international authority on alternative farming systems and the effects of the Chernobyl nuclear disaster on the food system. He is presenting a seminar on each topic during his visit to the University this week.

The biophysics interdepartmental group received $1,550 to help sponsor the visit of Dr. P.J. Quinn of the department of biochemistry, Chelsea College, University of London, an expert on biological membranes. This research area is relevant for 13 of the 30 faculty members in this intercollege group, says Ormrod.

The Department of Nutritional Sciences, with the support of the departments of Chemistry and Biochemistry and Biomedical Sciences, received $882 to assist with the visit of Dr. David Ong of Vanderbilt University, Tennessee, an authority on the transport and functions of Vitamin A.

The School of Human Biology received $557 to assist with the costs of bringing Dr. Robert Erickson of the University of Michigan here to discuss his research in the field of the genetics of sex determination and sexual development. The nomination was supported by the departments of Molecular Biology and Genetics and Biomedical Sciences.

The selection committee also provided $950 for the support of the University's activities in the Ontario Program for Latin American and Caribbean Studies. Faculty members from the colleges of Arts, Social Science and Biological Science are involved in this program.

The next deadline for applications is Oct. 15. Ormrod says all departments, schools and colleges will receive notices and application forms, which should be submitted to Dr. Wayne Marsh, Office of Research.

Applications must include a detailed budget statement and letters from the departments, schools and colleges supporting the application. Last year, several applications were not approved because the applicants had not provided a detailed and precise budget for the proposed activity, says Ormrod. Prospective applicants who would like to see examples of successful applications should contact Ormrod at Ext. 2441. ○

Students line up to try out the breathalyser test set up last week in the University Centre courtyard during Alcohol Awareness Week.

Norm Demers, chair of the Wellness Promotion Task Group of Student Services, says student response to the week was excellent.

Photo by Barbara Chance, PRI

World Food Day

The plight of the family farm around the world will be discussed at the University of Guelph's World Food Day program Oct. 15. A three-member panel will address issues of food security and social justice that link Canadian and Third World farmers.

"The Family Farm Under Siege: An International Struggle" begins at 7:30 p.m. in Room 442, University Centre. Panelists are: CBC radio producer Carole Giangrande, who was responsible for the "Ideas" series on culture and agriculture; Peter Hendry, former editor of *CERES*, the United Nations Food and Agriculture Organization's review on agriculture and development; and Eleanor Hart, co-owner of a local hog farm and a former CUSO volunteer in Africa. Prof. Doug Pletsch, Rural Extension Studies, moderates.

Panelists will discuss land ownership, corporate control of food production, the split between research and the needs of the farm community, and overproduction. They will also explore the impact of the Green Revolution, the role of women on the family farm and the effects of low prices and high interest rates on farmers.

World Food Day is observed every October across the country. As part of an effort to acquaint Canadians with food issues around the world, provincial and national committees produce kits on food matters specifically aimed at elementary and secondary school children.

The Guelph program is sponsored by the University's Development Education Program, CUSO office and World Food Day committee, and Guelph's Public Interest Research Group, the Society for International Development Agency. CUSO will have a display on food issues in the University Centre courtyard Oct. 14. ○

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UNIVERSITY of GUELPH

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Photo by House Mail

Faculty, staff and students of the Department of Computing and Information Science sport the new sweatshirts designed by the campus Computer Science Club. The logo shows a scholarly user about to apply a sledge hammer to the computer terminal, above the "user friendly" caption — "Hit Any Key to Continue." Front row, left to right, Hugh Smith, Siu Ng, Bonnie Miller and Prof. Delip Bonerji. Second row, Alex Lopez-Suarez, Loreen Kellen, Martin Kriz, Chung Yip Lee, Prof. Tom Wilson and Pam Varga. Back row, Bob Lackenbauer, Marcel Fryters, Barry Youlden, Rick Mocklem, Steven Weiss, Brian Zandvliet, Patti Fischer, Ginette Di Cintio, Prof. David Swayne, Liz Sandals, Prof. Morian Shepherd and Prof. David Chiu. Shirts can be purchased from the club in Room 322, ICS building.

United Way

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UNIVERSITY of GUELPH

At Guelph

University's first president, J.D. MacLachlan, dies

Teacher, researcher, administrator

The University of Guelph's founding president and vice-chancellor, Dr. John Douglas MacLachlan, died Oct. 13. He was buried in a private ceremony in Guelph Oct. 17.

The University community extends sympathy to his family — wife, Agnes Olive, two children, Richard Alexander of Kingston and Bonnie Carlene of Ottawa, and five grandchildren. He was predeceased by his first wife, Hildred Carlene, who died in 1974.

In a tribute to a colleague and personal friend, President Burt Matthews says Dr. MacLachlan "will be remembered as the person who worked untiringly for many years to bring the federated colleges of the Ontario department of agriculture to an integrated, multi-faculty university. The firm foundation on which the University stands today is very much a result of his vision, tenacity and deep understanding of the fundamental concept of a university."

University of Guelph fellow Dr. Rick Richards, who was head of the department of soil science when Dr. MacLachlan was president of OAC and who became OAC's first dean when the federated colleges were established, worked closely with the late president.

"The concept he had for a university to develop from three founding colleges was very much a priority mission in his life," says Richards. "He worked long hours, seven days a week. He had a great feeling that OVC, OAC and Macdonald Institute were ready to become a university."

Prior to becoming a university, the federated colleges were a government-operated affiliate of the University of Toronto. Richards pays tribute to Dr. MacLachlan's ability to work effectively with Toronto during the termination period. In 1966, Toronto honored Dr. MacLachlan with an honorary doctor of laws degree, citing him as a "scientist and administrator who is a principal reason why one of Canada's youngest universities is also one of Canada's best."

Richards recalls the University's first meeting of Senate, held in the basement of War Memorial Hall. Dr. MacLachlan chaired that meeting, says Richards, and it was a full-day session with an agenda for the establishment of Senate's key committees — curriculum and academic standards.

Professor emeritus Trevor Lloyd Jones, OVC's fifth principal, says two words come to mind when he remembers Dr. MacLachlan's discussions with government officials about the development of the University — sincerity and courage. "He wanted to make sure that if the government was going to take steps to form a university, the standards we were used to would not be lowered — he hoped they would be improved."

The late Dr. John D. MacLachlan on the front campus he helped expand. This photograph appeared in the News Bulletin *on May 1, 1969.*
Photo by Ken Barton

Jones recalls their monthly Friday night trips together to Toronto to attend University of Toronto senate meetings as ex-officio members, and Jones says he enjoyed Dr. MacLachlan's company on trips to Britain, Holland and France.

It was during the MacLachlan era that the three-semester system was implemented at the University. The system's main proponent was professor emeritus Murdo MacKinnon, then dean of the newly formed Wellington College for arts and science.

Richards says Dr. MacLachlan was not only a great teacher and researcher — he was also a communicator. In messages to the public, he explained the changes that were happening "on the hill" and the responsibilities of the newly formed University. Richards quoted some of these, which also appeared in an article under Dr. MacLachlan's byline in *The Daily Mercury* on Nov. 30, 1965.

"The University is not ambitious to become great in all things, but strives for excellence in those areas and disciplines that can be enriched by the traditions of the past and by opportunities of the future," wrote Dr. MacLachlan. "While the University of Guelph does not aspire to be recognized as 'the first by whom the new is tried,' it hopes, nevertheless, to maintain sufficient flexibility to be 'not the last to lay the old aside.'"

Retired professor Earl MacNaughton, former dean of the College of Physical Science, remembers Dr. MacLachlan as "a fine person and a fine teacher." He was concerned about academic program reorganization, quality of teaching and fair treatment of students, says MacNaughton, who was head of the physics and mathematics department and later associate dean of Wellington College during the MacLachlan years.

"He will be remembered for his commitment to the concept of a university at Guelph and his tremendous efforts in establishing the University," he says.

John Hurst, now retired, who was director of Personnel during the late 1960s, remembers the meetings Dr. MacLachlan held in his office on the main floor of Johnston Hall — and the time the ceiling fell in during one of those meetings.

Hurst praises the late president's leadership qualities. "He made the necessary decisions and initiated the processes to develop University policies and procedures," says Hurst, who recalls that Dr. MacLachlan started what is today known as the President's Advisory Council.

Born in Burritt's Rapids, Ont., in 1906, Dr. MacLachlan completed high school in Kemptville and normal school in Ottawa. He then taught in an Ottawa public school for two years, and at the Carp Continuation School for a year. During these three years, he completed two years of a degree program at Queen's University, taking extramural courses in the winter and attending the university for summer sessions.

In 1931, Dr. MacLachlan received an honors BA from Queen's. He did post-graduate research at Harvard University, receiving an AM degree in 1934 and a PhD in 1935, specializing in plant pathology. From 1935 to 1936, he served in Jamaica as a Sheldon travelling fellow from Harvard University. From 1936 to 1939, he was assistant professor of botany, Clemson College, South Carolina.

In 1939, he joined the faculty of OAC as assistant professor of botany, becoming associate professor in 1944, professor in 1946, head of the department in 1948 and president of the college in 1950. During those years, he earned the respect of his peers as a clear and inspiring teacher and a zealous and meticulous researcher, studying physiological diseases of crop plants due to trace mineral deficiencies.

In 1962, Dr. MacLachlan was appointed president of the federated colleges of the department of agriculture. Two years later, he was appointed the first president of the University of Guelph, a position he held until 1967 when he retired and became an education consultant with the government of Jamaica.

A fellow of the Agricultural Institute of Canada, Dr. MacLachlan was named one of the first two recipients of the new honorary fellow of the University of Guelph award in 1969. (The other was Thomas McEwan, first chair of the University's first board of governors.)

In 1984, the University paid homage to its former president by naming one of the oldest buildings on campus — the agricultural economics and extension education building — the "J.D. MacLachlan building."

In 1986, a bust of Dr. MacLachlan by Guelph sculptor Sophia Hungerford was unveiled in a ceremony at the President's House. It is now on the main floor of the McLaughlin Library. An oil painting of MacLachlan by Guelph artist Evan Macdonald hangs in the president's board-room on Level 4 of the University Centre, flanked by portraits of the late George Drew, the University's first chancellor, and McEwan.

A memorial fund has been established in Dr. MacLachlan's name. Send donations payable to the J.D. MacLachlan Memorial Fund to the Department of Alumni Affairs and Development. O

National forum on university issues set for Saskatoon

A national forum to explore the challenges and opportunities facing Canada's colleges and universities as they prepare for the next century opens in Saskatoon Oct. 25. President Burt Matthews will be among the delegates.

The forum is of vital importance to all Canadians, says the chair of the national forum committee, Dr. Brian Segal. The event is jointly sponsored by the federal and provincial governments — the first time in history that the two levels of government have worked on a joint venture in the field of education, he says.

Maurice Strong, Claude Castonguay and Rosemary Brown are the keynote speakers; they will address the social and economic factors that will affect the future of Canada's post-secondary education systems.

Strong is chair and president of American Water Development Inc. in Denver, Colorado. Born and educated in Manitoba, he has been president of the Power Corp. of Canada, head of the Canadian International Development Agency, and president and chair of Petro Canada. He has also occupied senior posts in a variety of international organizations, including the United Nations, the World Bank and the International Energy Development Corporation. Strong, who has always been concerned with environmental issues, will assess the social and economic forces at work in the global society that Canadian educational systems must taken into account.

Castonguay and Brown will discuss the evolution of Canadian society and how international trends in education will affect Canada.

Castonguay, chair of the board and CEO of the Laurentian Group Corp., is chancellor of the University of Montreal. Educated at Laval University and the University of Manitoba, he has worked as an actuary and consultant. A member of the Quebec National Assembly in the early 1970s, he also served as minister of social affairs in the Bourassa government.

Brown, educated at the University of British Columbia and McGill University, is the Ruth Wyn Woodward Professor at Simon Fraser University. A prominent member of the opposition in the B.C. legislature for 14 years, Brown is a social worker by profession and is a well-known activist on social and women's issues.

The three-day forum, to which 500 participants have been invited, will concentrate on the following themes: challenges and opportunities facing post-secondary education; accessibility to and participation in the post-secondary education system; and a framework for managing and financing post-secondary education. A concluding plenary session will receive final reports on the outcome of the workshop discussions on each major theme.

For more information, contact Del Lyngseth, National Forum Secretariat, 275 Slater St., Suite 1204, Ottawa K1P 5H9, 613-236-2434. O

Tent-in focuses attention on housing situation

The Central Student Association's "tent-in," held last month to protest the lack of affordable housing in Guelph, has had positive results, says Craig Sanderson, CSA vice-president, external.

"People have been calling to say they weren't aware the problem was that bad," he says. "And a lot of people have called in to offer rooms, from as far away as Kitchener." The CSA has also received letters from many other universities, giving their full support on the housing issue.

Sanderson says he's "very happy" with the results of the tent-in. "Anything that brings attention to the problem and helps it in any way is definitely a good move."

During the tent-in, more than 100 students spent the evening around a campfire on Johnston Green and 20 slept overnight in the CSA's Tent Inn. In addition to the city's general lack of housing — the current vacancy rate is .004 per cent — the students were protesting what Sanderson calls an "anti-student" exclusionary bylaw that limits to four the number of unrelated persons living in a single dwelling.

Sheena Weir, chair of the Ontario Federation of Students, says the Guelph situation is repeated across the province. Only two university cities in Ontario — Ottawa and Thunder Bay — enjoy vacancy rates above the "problem level" of two per cent, she says. Carleton University students erected a "mirror tent" on their Ottawa campus to support the Guelph effort. Other campuses have also embarked on campaigns to encourage more government support of low-rent housing for students and to protest the trend toward municipal exclusionary bylaws, says Weir.

Kitchener has a similar bylaw limiting the number of unrelated persons in a single dwelling to five, she says, and London initiated a new bylaw last spring. In Sudbury and Kingston, there are long-standing, but unused, bylaws; in Hamilton, there are none.

Weir says there is no excuse for the bylaws "other than elitism and discrimination against low socioeconomic groups like students," because they zone people rather than control land planning.

Guelph's bylaw was put forward in 1982 as a general amendment to the city's 1971 zoning bylaw and it covers all types of shared accommodation, including residential care facilities and group homes, says city planning director Mario Venditti. The bylaw is enforced only on complaint.

CSA representatives have met with Mayor John Counsell and intend to meet with members of city council in an effort to convince them to retract the exclusionary bylaw as a short-term remedy to the housing problem.

University students are only one group of people affected by the city's low vacancy rate, says Guelph city planner Matt Reniers. Because most multiple housing starts in the past few years have been condominiums, the city has not had the rental construction it needs, he says.

In response, the city has tried to encourage multiple housing, particularly in the downtown area, and has adopted a restrictive policy in dealing with requests to convert rental buildings to condominiums or zoning changes that would permit the renovation of townhouses into single family dwellings. A new official city plan, approved by council in May, addresses the problem and recommends the construction of high-density dwellings on Stone Road in the vicinity of Edinburgh Road, on land owned by the University.

In a situation like Guelph's where there are many people competing for rental housing, students often lose out, says Barbara Hodsdon, off-campus housing officer. Landlords who have numerous applications from working people may be less inclined to rent to students, who can't promise to be permanent tenants, don't have references from past landlords and often sublet during the summer months.

Despite the shortage of affordable off-campus housing, however, "no Guelph students need to be sleeping in their cars," says Hodsdon. The University's late-August plea for student accommodation in the Guelph community brought many offers of rooms, basement apartments and temporary accommodation from Guelph residents, she says.

The difficulty in finding suitable off-campus accommodation is reflected in this year's increased demand for on-campus housing, says Blair Capes, assistant director of Residences. Some 450 returning students had to be turned away from residence and the waiting list still has about 120 names on it. A number of temporary triple rooms were created in double rooms, and common spaces were used to accommodate 80 students waiting to get into residence. All of those students have now been moved to other accommodation, except for those who have asked to remain in their "triples," says Capes.

The University provides on-campus housing for 3,950 students, leading other Canadian universities by housing 60 per cent of its first-year students and 45 per cent of its entire student population. A University policy guarantees residence space to all incoming students who apply by the end of June. Returning students are next on the priority list.

"I think the University has done its part to combat the problem," says Sanderson. "The ball is now in the city's court."

A proposal to build another residence on campus is in the discussion stage, but offers no immediate relief for current students or the more than 400 students who are waiting to get into the University's married student housing complex. These 139 townhouses rent furnished for $400 per month and include utilities, laundry facilities and parking. The wait is an average 15 months for students, who must be attending the University full time to apply. O

Balloons — and hopes — soar as the annual campus appeal for United Way continues. Left to right, with co-ordinator Don McIntosh, Office for Educational Practice (kneeling), are: Marisa Phillips, Registrar's Office, Carol Kitching, Administrative Services, Douglas Waterston, President's Office, Jane Wielhorski and Helen Martin, OEP. Early returns are encouraging, says returns officer Gabrielle Hubert, Registrar's Office. If you haven't been approached yet by a canvasser, call Ext. 3106. This year's goal is $110,510.

Photo by John Majorossy, Photographic Services

Letters to the Editor

At Guelph and censorship

Recently in the "Letters to the Editor" section, concern was expressed regarding the censorship of content in *At Guelph*.

Based on the existing editorial policy of *At Guelph*, which is published once a year, no department or individual within the University community has the right to censor the content of the publication. Consistent with this editorial policy, which was developed at the direction of the Office of the President about five years ago, no editorial interference or attempt at censorship from any department or individual will be entertained or tolerated by the editorial staff in the Department of Public Relations and Information.

On a regular basis, the staff of *At Guelph* receives requests to write stories on many different and controversial issues and happenings at the University. In addition, from time to time, requests are received to change or alter quotes and stories during the verification process.

The material that is ultimately published in *At Guelph* is based entirely on the editorial prerogative of the executive editor and the director of public relations and information. As stated in the editorial policy, the president of the University has the right to be the final authority on the content of the publication. The current president of the University has always deemed it inappropriate to exercise that editorial authority.

Copies of the current editorial policy of *At Guelph* are available on request at Ext. 3864.

Gerry Quinn,
Director,
Public Relations and Information.

At Guelph

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Views and opinions contained herein do not necessarily reflect official University policy. Letters to the editor, opinions, news items and other submissions are welcome. Deadline is seven days before date of issue unless otherwise specified. Stories may be reprinted with acknowledgment of source.

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Greenhouse donations to be unveiled at Canadian Greenhouse Conference

The annual Canadian Greenhouse Conference continues to grow, and with it the benefits it brings to the greenhouse industry and to the University.

This weekend's ninth annual conference will host the displays of more than 115 industry suppliers, feature two days of seminars for the "hands-on greenhouse grower" and witness the unveiling of two new greenhouses that will benefit University teaching and research in horticultural seience.

Co-ordinated by the Department of Horticultural Science, the annual event is billed as the Canadian marketplace of grower technology. It will be opened Friday morning by incoming department chair John Thompson, speaking on "The Greenhouse Industry and the Horticultural Science Department."

Canadian rose growers have contributed $70,000 towards the construction of a rose researcb greenhouse that will be unveiled during the conference. With donations of equipment from support industries, the structure offers the most up-to-date technology in greenhouse construction, says Prof. Jim Tsujita, one of the chief planners of the conference.

Additional space for conference exhibits has been provided by DeCloet Greenhouses of Delhi through the construction of a 42 x 72-foot glass greenhouse. This the third permanent structure that has been built on campus in support of the conference and is made available to the Department of Horticultural Science for teaching and research efforts. Last year, Jacobs Greenhouse Mfg. Ltd. and Van Rijn Enterprises Ltd. jointly built a 32 x 48-foot tempered glass building. In 1985, Westbrook Greenhouse Systems Ltd. erected a 36 x 72-foot plastic greenhouse.

During the conference, a temporary quansit structure is built on Winegard Walk and a lean-to style building is added to the Thornbrough building to accommodate the demand for trade fair space.

The success of the conference stems from its "no frills" approach, says Tsujita. The $15 registration fee is low, so participation is high. Educational seminars planned for both greenhouse operators and their employees cover topics as practical as managing air movement, effective pesticide application, a whitefly update and a panel discussion on growing greenhouse peppers. O

HAFA conference explores pay equity issues

A conference on "Managing Pay Equity" in the hospitality industry will be held on campus Nov. 11. Sponsored by the student council of the School of Hotel and Food Administration, the conference is organized with the support of AIESEC, an international organization of students in business courses.

The program begins at 7 p.m. in Room 149, Macdonald Hall, and is free and open to all interested participants.

What does pay equity mean? What trends will wages in the hospitality industry take? What job evaluation techniques can be incorporated into a company? These are some of the questions conference participants will explore.

The evening will feature a panel discussion of new developments in the hospitality industry that reflect the growing trend towards pay equity. Senior executives in hospitality and related fields will present their perspectives. O

Costa Rican farmers process trout for market. Photo by Barra Gots

Trout farming makes living easier for campesinos

by Pamela Healey

Costa Rican peasant farmers, whose tiny plots of land often provide little more than enough food for subsistence, are improving their quality of life with income from fish farming.

Zoology professor Hugh MacCrimmon, director of the Tropical Trout Farming Project in Costa Rica, has played a key role in establishing a viable rainbow trout farming industry in the mountains of Central America that has implications for other Third World countries.

Sponsored by the Canadian International Development Agency, the project is a joint venture of the University and the Costa Rican government. MacCrimmon says the trout farming project is "turning previously untapped water resources, solar energy and low-cost feeds into high-quality protein of immense social and economic benefit to rural communities."

The Costa Rican peasant farmers or campesinos raising trout for market own small, half-hectare plots of land at elevations of 1,800 to 3,400 metres in mountain valleys. They grow a diversity of produce in small quantities, but often have little left over to sell for ready cash. Rainbow trout, however, bring high profits in the luxury food market. The campesinos themselves eat few of the fish they raise.

Water temperatures at these high altitudes range between 12 C and 20 C, suitable for rainbow trout production. Campesino farming is not highly mechanized, says MacCrimmon, and these enterprising farmers take advantage of locally available diets to feed the trout grown in small dugout ponds.

MacCrimmon and his Costa Rican counterpart, the country's assistant director of fisheries, have set up hatcheries and experimental farm and research facilities, and have trained Costa Ricans to run them. Guelph technician Barra Gots has provided the technological training. The expertise and half the funding has come from Canada, with the Costa Rican government contributing almost half the funds as part of its national rural development program.

Certified rainbow trout ova are imported and incubated in small, temporary hatcheries. The fingerlings are sold cheaply to campesino fish farmers scattered throughout the mountain valleys of central Costa Rica at elevations above 2,000 metres. Below that altitude, the water is too warm for trout to tolerate. Ready for market in seven months, most fish are sold to stores and restaurants in the San Jose region of Costa Rica, but there are plans for future international exports.

Last year, an experimental trout pond complex was built at a University of Costa Rica agricultural research station. Controlled research on the ecology of pond-reared trout under Costa Rican environmental conditions aims to improve pond management and feeding strategies, says MacCrimmon. This facility is also important for training trout farmers.

A trout production hatchery, now nearing completion on the Pan American highway at an altitude of 3,300 metres, is designed to produce two million seedling trout a year for the growing fish farming industry. Parent fish are held at the hatchery and self-sustaining populations have been established in several stream systems. As soon as stocks of parent fish become adequate to meet aquaculture demands, importation of certified trout ova can be stopped, says MacCrimmon. Surplus ova may ultimately be available for export to other countries.

Trout from the hatchery will also be released in mountain streams to provide angling for tourists. Some campesinos are already opening their production trout ponds to recreational pay fishing, MacCrimmon says.

The aim of the project is to achieve self-sufficiency in all aspects of trout culture and production in Costa Rica by the end of 1989. MacCrimmon believes this will be achieved. Other tropical countries are now showing interest in the idea as a supplement to traditional crop farming in highland regions. O

Volunteers help researchers study Lou Gehrig's disease

With the help of some brave volunteers — all of whom are suffering from an incurable illness — a two-year study is now under way in Guelph to investigate the progression of Amyotrophic Lateral Sclerosis (ALS), commonly known as Lou Gehrig's Disease.

A research team led by Prof. John Brooke, School of Human Biology, and Dr. Ranjit Singh, a Guelph neurologist and associate faculty member, is engaged in a study to monitor the progression of this fatal disease in about 20 patients.

"Understanding the progression and neural damage this disease causes is essential to finding a cure," says graduate student Peter Yoon, the project's research officer.

The cause of the disease, which is named after the former major-league baseball star who was stricken by it, remains largely unknown. Statistics indicate that 80 to 90 per cent of all cases are sporadic, with just 10 per cent identifiable as being hereditary. The one in 100,000 Canadians who develop ALS each year can die in as little as six months if it afflicts their brain, or within 36 months if it is confined to the spine.

Typically, ALS attacks people in their mid-50s, affecting the upper and lower motor neurons that control movement. One of the first symptoms is muscle weakness, which progresses until the muscles irreversibly atrophy because of a depleting nerve base. Death is inevitable because essential muscles, such as those required for respiration, fail to perform.

As a comparative measure, the researchers will also study the loss of nerve and muscle cells in healthy, aging people. In ALS sufferers, this process is rapidly accelerated.

The study, which is funded by the ALS Society of Canada, will involve monthly visits by patients from Toronto, Kitchener-Waterloo, Cambridge and Guelph to the school's neurophysiology laboratory and Singh's neurology clinic.

"These patients are very brave people," says Yoon. "It's a terribly traumatic disease (and) they know they will die, but they are still interested in making this contribution to knowledge about the disease." O

Gene bank for conservation and economic development

Some of Ontario's rarest species of trees and shrubs are being preserved in The Arboretum. The gene bank includes honey locust, shining sumach, prairie rose, cucumber and tulip, all rare or endangered species in southern Ontario.

These are all Carolinian species, native to the southern Great Lakes region, says Arboretum curator John Ambrose. Because southern Ontario is the northern limit of their range, Canadian distribution is narrow and many species in the gene bank have been listed as rare by the Committee on the Status of Endangered Wildlife in Canada.

Guelph is north of the Carolinian zone, but the climate is suitable for most of these trees, says Ambrose. A few need sandy soil and don't do well in Guelph loam.

The gene bank supplements conservation work by the Ontario Ministry of Natural Resources (OMNR) and produces seeds. The preservation of natural stands of trees is of primary importance, says Ambrose. Gene banks contain only a small sample of species growing in the wild and can't preserve all genetic diversity. Vegetation in gene banks is also not subject to the same harsh conditions as those in a natural habitat, such as competition with other species, interaction with predators and diverse growing conditions.

Seeds from the gene bank will be used to re-introduce vanished or depleted species into natural habitats, or as a basis for economic development of trees for lumber, shade or ornamentation, says Ambrose. The Arboretum participates in an international seed exchange system with China, the Soviet Union, North Korea and other temperate climate countries. Seeds sent from Guelph are currently collected from the wild, but Ambrose hopes some collections can be taken from the gene bank within a year or two.

The gene bank was established with a grant from the OMNR, and plantings of nursery stock began in 1985. Materials have been collected by Arboretum staff, district officers of the OMNR, naturalist groups and individuals.

The Arboretum collection emphasizes genetic diversity and representation of many different southern Ontario stands. Species are planted in blocks, with records kept of collection locations. Using a computerized inventory system, Ambrose can locate the original population to obtain more seeds.

Arboretum staff are also carrying out research aimed at better management of the gene bank species. Ambrose and Botany professor Ken Carey found the rare Kentucky coffee tree is low in genetic variability, with most stands consisting of all male or all female clones that do not produce seeds. Only about 25 populations of this tree species are left in Ontario, with just 14 in natural stands; the remaining populations grow in fence rows or roadside ditches.

Ambrose is now working with Prof. Peter Kevan, Environmental Biology, on a World Wildlife Fund grant to study the population and reproductive biology of several other Carolinian species. O

VMI researcher develops improved test for Q fever

Several years ago, researchers working with pregnant sheep became ill with a flu-like disease called Q fever. Although the disease is relatively rare, more than 30 cases were reported in Ontario last year. A test developed at OVC now makes it easy to identify the disease in herds of goats, sheep and cattle.

Prof. Gerhard Lang, Veterinary Microbiology and Immunology, says the disease is hardly noticeable in animals and can be difficult to diagnose in humans because it masquerades as other illnesses. But Q fever can be serious enough to hospitalize patients, and the disease agent coxiella can invade vital tissues like the heart and liver, causing permanent damage and even death.

Lang says the problem has been neglected by Canadian public health officials because farm families often develop immunity through continuous exposure to coxiella. Infected goats, sheep and cattle are the main source of human Q fever in Canada, he says.

Coxiella accumulate in the uterus and developing fetus and contaminate the environment during birth or abortion. Unpasteurized milk can be contaminated although coxiella won't cause inflammation of the udder or alter the appearance of milk. Dried coxiella in dust can cause Q fever when inhaled by humans, a fact that puts slaughterhouse workers at especially high risk.

OVC investigations in southwestern Ontario show a steady advance in the rate of cattle infection in the last 20 years, with dairy herds highest. In 1961, just over two per cent of animals tested showed infections. By the mid-1980s, the rate was 67 per cent. The test that has been used for Q fever in the past has shortcomings; it doesn't reveal the infection rate in animal populations. Lang isolated a strain of coxiella from an aborted goat fetus and produced antigens for use in an enzyme-linked immune absorbent assay test that differentiates sharply between negative and positive reactions. He is now ready to begin mass testing of all Ontario ruminants to determine the extent of coxiellosis.

Lang says farmers should be concerned about the presence of the coxiella agent in their livestock, even though the animals themselves aren't sick. Farmers can be held legally responsible for animals identified as the source of infection of humans or other animals. Cows with coxiella have less commercial value and can be difficult to sell. Expensive breeding animals should be coxiella-free, especially for the export market, Lang says.

The improved blood test for coxiella infection can be used in public and animal health laboratories as the basis for a control strategy that will involve detection and removal of infected animals and stringent hygienic precautions during calving.

A recent OVC survey suggests that although as much as two-thirds of Ontario's 10,504 dairy herds are infected with coxiella, most of these herds (an estimated 84 per cent) have only a few reactors that can be removed to clean up the herd. Lang says the seriously infected herds require stringent hygienic measures to reduce environmental contamination. Replacement stock must be reared away from infected animals. In extreme cases, all livestock must be removed and holding facilities disinfected before re-stocking with clean animals.

A similar program can be designed for the approximately 70 dairy goat herds in the province, Lang says. In a recent survey, 20 per cent of these herds tested coxiella-positive. As yet, there is no government-sponsored program to test all Ontario cattle, goat and sheep herds, but Lang has been testing animals at the request of individual owners. O

Briefly

Fine Art under review

The Department of Fine Art is undergoing an internal review, part of which is a three-day visit by external evaluators Nov. 2, 3 and 4. Anyone wishing to meet with the review committee should call Prof. Dave Stanley at Ext. 2283.

Guitar trio performs

The Department of Music's Thursday noon-hour concert Oct. 22 features the Amsterdam Guitar Trio, with Helenus De Rijke, Olga Franssen and Johan Dorrestein. Formed in 1978, the trio is one of the most important chamber music ensembles in Holland. In 1981, the trio made its London debut at Wigmore Hall, which served to launch a career that has resulted in tours of the United States, Canada, Europe and the Far East.

Program I at 12:10 p.m. in Room 107, MacKinnon building, will consist of "One of the Four Seasons" by Vivaldi, "Rondo" by Chopin and "Petite Suite" by Debussy. Program II at 1:10 p.m. features "Are You Afraid of the Dark?" "The Insects Are Coming" and "Miss Garcia Doesn't Ring Anymore" by Meijering. Admission is free.

World youth exchanges

Canada World Youth, funded in part by the Canadian International Development Agency, is looking for young people between the ages of 17 and 20 who are interested in learning about development and crosscultural communication both in Canada and in a developing country. These young Canadians will spend seven months living and working in vastly different cultures and communities. All costs for food, lodging, transportation and pocket money are covered by Canada World Youth. Exchanges start in June, July and September. Deadline for June and July exchanges is Jan. 22, 1988; deadline for September exchanges is March 18. For more information, contact Canada World Youth, 386 Bloor St. W., Toronto M5S 1X4, or Susan James, Development Education Program, Ext. 6915.

MCU changes hands

The new leader of the Ontario Ministry of Colleges and Universities is Lyn McLeod of Thunder Bay, a newcomer to the legislature in the recent provincial election and one of six women in the 30-member cabinet. Former MCU minister Greg Sorbara is now labor minister with responsibility for the status of women. A former psychometrist, McLeod has served as a school trustee and a member of Lakehead University's board of governors.

What's new in biology?

The College of Biological Science's Thursday seminar series focusing on what's new in biological research continues Oct. 22 at 1 p.m. in Room 102 of the J.D. MacLachlan building with the topic "Some Thoughts on Hazardous Waste Management." Guest speaker is Dr. Donald Chant, president of the Ontario Waste Management Corp. Former provost and chair of the department of zoology at the University of Toronto, Chant is best known as the founder of Pollution Probe and has written extensively about the problems of waste management. On Oct. 29, Prof. Janet Wood, Chemistry and Biochemistry, will discuss "Kinetics to Clones: Membrane Enzymology in *Escherichia Coli.*

Calling all musicians

Enthusiastic people who can play instruments are invited to join a rah rah band to play at athletic events. For more information, call Paul Adams at 763-9252.

BoG meeting cancelled

The Oct. 22 Board of Governors meeting has been cancelled. The next scheduled meeting is Nov. 26.

Science encouraged

Canada and the Yukon have signed a five-year memorandum of understanding on science and technology. The agreement is designed to encourage scientific activities, innovation and technological development based in the Yukon. The goal is to develop a long-term strategy for using science, technology and innovation as a tool for economic growth in the territory. A committee chaired by representatives from both the Yukon and Canadian governments has been set up to co-ordinate activities under the agreement.

Skills training series

The Development Education Program is sponsoring a series of workshops and seminars to provide skills for community and international development. The series continues Oct. 28 with a video and slide presentation on "Canada World Youth: An Introduction to the Organization's Expectations for Hiring Group Co-ordinators." The presentation is of interest to those seeking work experiences overseas and begins at 7 p.m. in Room 332, University Centre. Cost is $2.50 at the door, $1.50 for visa students.

A two-part workshop on writing for international development runs Nov. 9 and 20 from 2 to 4 p.m. in Room 335, University Centre. Cost of the workshop is $4 ($3 for visa students); preregistration at Ext. 3778 is required. The skills training series also offers a video presentation and discussion of the CUSO-sponsored Togo water project Nov. 10 at 7 p.m. in Room 441, University Centre, and an afternoon of popular theatre with the Toronto-based Theatre in the Rough Nov. 11 from noon to 3 p.m. in Upper Massey Hall. Cost for both sessions is $2.50, $1.50 for visa students. All of the events are sponsored by the Development Education Program, the Centre for International Programs, the University and the Canadian International Development Agency. For more information, call Ext. 3778.

Counselling available

The marriage and family therapy service of the Department of Family Studies offers professional counselling on marital, family, sexual and relationship issues. For more information or an appointment, call Ext. 6335.

Eating disorders session

The Counselling and Student Resource Centre is sponsoring an information session on anorexia nervosa and bulimia Nov. 2 from 5:15 to 7 p.m. in Room 103, University Centre. Psychoeducational principles, predisposing factors and medical complications are a few of the areas *that will be discussed. The session is open to* anyone interested in learning more about eating disorders. For more information, call Anne Billings at Ext. 3245.

Surplus items for sale

The Surplus Sales Department, Blackwood Hall, has the following items available for departmental purchase only: SD#356 — one Philips PW/1120/96 X-ray generator and tube housing; SD#392 — one upholstered chesterfield and chair; four Bell & Howell SRIII Fiche readers; five Bell & Howell SRIV Fiche readers. For more information and viewing, call Ext. 8139.

Chamber music season opens

The Guelph Chamber Music Society opens its 1987/88 season Oct. 25 with the Tafelmusik Baroque Soloists playing a program of Purcell, Rameau, Handel and Bach on original string instruments. This Toronto-based group, which is among the leading exponents of baroque music in North America, recently returned from its second European tour. On Dec. 13, the society presents "Sing Noel," a program of Christmas music featuring harpist Julie Umbrico and the Guelph Chamber Choir directed by Gerald Neufeld. On Jan. 31, the American group Calliope will offer a program of Renaissance instrumental music. The final concert March 27 is a new edition of Mozart's "Requium" by Franz Beyer, performed by the Guelph Chamber Choir with orchestra conducted by Neufeld. The Oct. 25 and Jan. 31 concerts are at Chalmers United Church, the Dec. 13 and March 27 concerts at St. Georges Anglican Church; all begin at 3:30 p.m. Series tickets at $25 general, $20 for seniors and students, are available at the Bookshelf Cafe, Opus Two on Carden Street or by writing to the society at P.O. Box 513, Guelph N1H 6K9.

Watercolors on display

An exhibition of watercolors by artist Terry Buhrows is on display in the Faculty Club, Level 5, University Centre, until Oct. 31.

Plant biotech seminar

A plant biotechnology seminar on "Collaborative Research in Biotechnology for Potato Improvement" will be held Oct. 26 at 3 p.m. in Room 240B, Horticultural Science building. Guest speaker is John Dodds of the International Potato Centre in Lima.

Protect your back

The Occupational Health Department is offering a preventive back exercise program Oct. 21. It will be taught by Dr. John Powell. For more information, call Jean Wessman, Medical Services, Ext. 2133.

Film festival opens

The Guelph International Film Festival opens tomorrow at 7 p.m. at the downtown Odeon Theatre with the screening of the 1986 Argentinian film "Man Facing Southeast." The theme of the 1987 festival, which runs until Oct. 25, is the "International Year of Shelter for the Homeless."

More than 30 films and videos from Latin America, Africa, the Middle East, India and North America will be shown during the festival. Films include "Beirut! Not Enough Death to Go Around," a Canadian-made film portraying the struggle for survival in war-torn Beirut, the Israeli film "On Our Land," documenting the dispossession and the plight of Palestinians, and "Home Feeling," a look at Toronto's Jane-Finch "Corridor." Videos include the Academy Award-winning "Down and Out in America," a documentary on poverty and homelessness in the United States, and "Grandfather, Your Right Foot is Missing," a South African film about the destruction of a Cape Town neighborhood.

Screening locations are Room 149 in Macdonald Hall, Room 204 in the Landscape Architecture building, The Loft on Carden Street and Ed Video, 16A Wyndham St. N. On Oct. 24, the festival features a video workshop with guest artist Judith Doyle at 1 p.m. at Ed Video, a children's matinee program and a panel discussion on "Displacement and Exile" at 4:15 p.m. at The Loft. The festival closes with a gala screening Oct. 25 at 1:45 p.m. at the Odeon.

Cost is $4 at the door for individual sessions, $5 for galas and $12 for a pass that includes all sessions except the galas. Tickets are available at the University Centre box office, the Development Education Office, the Bookshelf Cafe, Macondo Books, the Guelph International Resource Centre and the Guelph International Film Festival office, 16A Wyndham St. N. For more information, call 836-8885.

Overseas scholarships

The following scholarships are available for overseas study in 1988/89: the Canada-Spain Graduate Exchange Scholarships; Peoples' Republic of China Graduate Scholarships; Government of Colombia Graduate Scholarship; and Yugoslavian Government Graduate Award. Application forms are available from the Awards Division, Association of Universities and Colleges of Canada, 151 Slater St., Ottawa K1P 5N1, 613-563-1235. Application deadline is Oct. 31. For more information, call Susan James, Development Education Program, Ext. 6915.

Living in the Killing Fields

Dith Pran, whose fight for survival in war-torn Cambodia and his relationship with *New York Times* journalist Sydney Schanberg were chronicled in the award-winning film "The Killing Fields," will speak in War Memorial Hall tonight at 7:30 p.m. The lecture is sponsored by the University Centre and the Central Student Association, in co-operation with *The Daily Mercury.* Tickets are $6 general, $5 students and seniors, and are available at the University Centre box office.

Halloween music

Juno-award winning singer Sandra Beech will present a children's concert Oct. 31 at 1 and 3 p.m. in War Memorial Hall. She will perform songs for Halloween as well as selections from her albums "Chickery Chick," "Inch by Inch," "Sunshine Songs" and "Sidewalk Shuffle." Tickets are $6 and are available at the University Centre box office.

Working for a living

Room of One's Own, a feminist literary quarterly, invites submissions of poetry, short fiction, graphics and reviews on the theme "Working for a Living" for a special issue next summer. Send submissions by Nov. 30 to "Working for a Living," c/o Room of One's Own, P.O. Box 46160, Station G, Vancouver, B.C. V6R 4G5. Enclose a self-addressed stamped envelope.

Focus on Arboretum

A video on The Arboretum, produced by Rogers Cable TV in co-operation with the Department of Public Relations and Information and the Office for Educational Practice, will be shown by the Kitchener-Waterloo and Brantford stations Oct. 25 at 12:30 p.m. Arrangements are under way to show the video by other Rogers stations throughout Ontario.

BBC releases announced

The Development Education Program has information on new education and training releases from the BBC. New titles in the field of ethical and social issues are "Female Circumcision," "Maori — The New Dawn," "Principles at War" (Red Cross in Afghanistan) and "At the Edge of the Union" (Northern Ireland). New releases on Third World issues are "Open Door, Open Minds" (News Night in China) and "Iran — A Revolution Betrayed." Other releases are in the field of natural history — "Beneath the Keel," "Kinabulu — Summit of Borneo" and "Through Animal Eyes"; engineering and technology — "Ray of Hope" and "What Einstein Never Knew"; civil and military defence — "Gurkha"; television training — "BBC-TV News: The First 30 Years"; history, geography and natural science — "Uranus Encounter"; and first aid — "Save a Life." For more information, call Ricardo Ramirez, Ext. 6918.

Secretaries association meets

Professional Secretaries International will hold its annual executary evening Oct. 28 at 6 p.m. at Guelph Place, Banquet Hall, 492 Michener Rd. Guest speaker Rosalie Wysocki will discuss "Building a Team for the 21st Century." Cost is $22.50 per person. For more information or to register, call Edith Hobson at 837-2130.

India field study

The University of Waterloo runs an annual India field study program for a group of 15 to 20 students. The students spend 14 weeks from January to April in India, studying the country's environment and development, as well as its religious and cultural values, history and social structures and its politics and economy. Students pay all their expenses themselves, about $3,500 to $4,000, including airfare. The next trip is scheduled for 1989, with selections to be completed in September 1988. Waterloo is considering extending this program to students at other universities, and seeks input from faculty and students to determine the feasibility of doing so. Anyone interested in participating in the program is asked to write to Sehdev Kumar, Director, India Field Study Project, Environment and Resource Studies, University of Waterloo, Waterloo N2L 3G1.

Viola, piano duo featured

Guest performers in the Department of Music's Thursday noon-hour concert Oct. 29 are Yan and Yana Volodarsky on viola and piano. Both musicians were born in Russian and obtained their doctorates from the Conservatory of Moscow. Violist Yan Volodarsky has performed as orchestra soloist, conductor of chamber music and has taught both viola and violin. Pianist Yana has taught and performed both as soloist and accompanist. The duo has recorded for Radio-Canada and is on the list of musicians in service to the governor-general of Canada. They now reside in Ottawa.

Program I at 12:10 p.m. in Room 107, MacKinnon building, will consist of "Sonata N 2 in D-Major" by Bach and "Bachianas Brasileiras N 4" by Villa-Lobos, a world premiere arrangement for viola and piano by the Volodarskys. Program II at 1:10 p.m., will feature "Beau Soir," "La Fille aux Cheveux de Lin," "Valse Lente" and "Les Menestrels" by Debussy and "Sonata in G-Major" by Ravel. Admission is free.

CFRU holds fund drive

CFRU-FM is holding its first on-air funding drive until Oct. 31 at 7 p.m. CFRU is a non-profit corporation that first went on the air at 93.3 FM Jan. 28, 1980. New shows on CFRU this year include "Sports View," a survey of local and University sports, Mondays at 5:30 p.m., "Arts in Guelph," an in-depth look at local arts, Fridays at 5:30 p.m., and "Kids Connection," a children's program produced in co-operation with the Guelph Public Library Sundays at 2 p.m. To donate to CFRU's fund-raising drive, call 837-3863. For more information, call Karen Bonell or Monique Lanoix at Ext. 6919.

Languages and Literatures needs more faculty: Kremer

When Prof. Manfred Kremer assumed the chair of the Department of Languages and Literatures Sept. 1, he knew it wouldn't be easy to follow in the footsteps of his close friend, Prof. John Bell, who died last spring. "John was one of the University's finest teachers and is sorely missed by this department," says Kremer. "I hope that I can carry on the tradition of excellence that was his hallmark."

Maintaining that tradition won't be easy, however, in a department faced with cutbacks and faculty losses due to retirements, he says. Language teaching requires small classes and is very labor-intensive with a high demand on the instructor's time. Many students choose a language course without any previous background or education in that subject.

The department already has good teachers, many of them recipients of internal and national teaching awards, says Kremer, but it's important to replace the people that have been lost.

His main concern is financial — finding the resources to hire good teachers. The department is coping by using sessionals, but Kremer says permanent faculty are needed for continuity. The situation is especially serious for the smaller sections such as classical studies, where there are only two full-time faculty.

Enrolment in Languages and Literatures, one of the largest departments in the College of Arts, has been steady for the past decade with 1,300 to 1,400 students a semester, but it has risen this fall. Although Kremer is pleased with enrolment numbers, he says it is difficult to continue offering first-class instruction to so many students.

With more than 20 years in the department, Kremer has the advantage of knowing his colleagues' strengths in teaching and research. "I have great confidence in the department's

faculty," he says. "If we work together as a team, I think we can handle our problems to the benefit of the students and the University as a whole."

Languages and Literatures offers seven subjects — Latin and Greek (classical studies), Spanish, Italian, German, French and linguistics, with degree programs in all but linguistics.

With the help of his colleagues, Kremer is revising the curriculum of some programs. The French studies section is investigating the possiblity of establishing a master's program in co-operation with other universities. With more than half the department's enrolment in the French program, the student base is broad enough to justify a master's program, he says. Guelph already works jointly with Wilfrid Laurier, Western and Windsor universities in running a French studies program in Nice, France.

Kremer received his undergraduate and PhD degrees at the University of Cologne in West Germany. He taught at the University of Wales for a year before coming to Guelph as a lecturer in 1966. O

Pratschke to broaden focus in Consumer Studies

In the past, teaching and research in the Department of Consumer Studies has focused on consumer affairs, particularly consumer behavior and the basic necessities — food, clothing and housing. New department chair John Pratschke sees a need to review and perhaps expand this focus.

Pratschke, who assumed his position Sept. 1, says he was drawn to Guelph because of his interest in consumer economics. The University has one of the few departments in Canada with a consumer emphasis. He says he plans to "preserve the department's unusual linking of social science, business and technology, but broaden the range of study to include other products and services important in the budgets of Canadian households."

The department now deals primarily with food, clothing, textiles and housing. Pratschke would like to expand teaching and research to include a broader spectrum of consumer goods as well as such consumer services as banking. Since the turn of the century, the proportion of the consumer's income spent on the basic necessities and that spent on luxury goods and services has changed greatly, he says.

The employer market is happy with Consumer Studies graduates, says Pratschke, but there is a need for better communication about the program with secondary school students. "We must get across the message that marketing is an interesting challenge and that the program is professionally oriented without losing its base in product technology."

Pratschke plans to spend the fall learning what the department has done and is doing and what the options are for the future. Eventually, he would also like to resume his research — a

study of the adaptation of Irish industry to freer trade between 1953 and 1973, when Ireland was preparing to join the European Common Market.

Born in County Cork, Ireland, Pratschke received his bachelor of commerce, master of economic science and PhD at University College Cork. He has taught at the University of Waterloo, University College Galway and most recently at Memorial University, Newfoundland. He has published widely on the economics of consumer expenditures, and on European housing policy, agriculture, banking and business education. O

Scottish Studies conference book sale

The University's annual Scottish Studies Conference Oct. 24 begins at 10:15 a.m. in Room 117A, MacKinnon building, with a discussion of "Sir Walter Scott's *Rokeby*," by Morton Smith of the University of Toronto. At 11:15 a.m., Catherine Kerrigan of Guelph will discuss "The Trial of Tradition: Modern Scottish Literature."

At 1 p.m., Prof. Ward Chesworth, Land Resource Science, will give an illustrated talk on "Crystals, Craters and Crucibles — the Scottish Contribution to Modern Geology." At 3:15 p.m., the Dreyam Ensemble will provide a sampler of Celtic music in the Faculty Club, Level 5, University Centre.

Registration for the conference, which is chaired by Prof. Ted Cowan, History, begins at 9:45 a.m. Cost is $10 general and $6 for seniors; student admission is free.

This year the conference will feature a sale of the McLaughlin Library's duplicate Scottish books in Room 132, MacKinnon building, beginning at 9 a.m. and continuing during the lunch break. For more information about the sale, call Tim Sauer, Library, Ext. 3422. O

Our people

Prof. Grant McCracken, Consumer Studies, has received an award for the most outstanding conceptual/empirical contribution to the *Journal of Consumer Reseorch* from 1984 to 1986. He received the award for his paper "Culture and Consumption: A Theoretical Account of the Structure and Movement of the Cultural Meaning of Consumer Goods," which appeared in Vol. 13, Issue 1, 1986.

* *

Prof. Elizabeth Miles, Department of Family Studies, has received the award of honor from the Ontario Dietetic Association in recognition of her dedication to the advancement of the dietetic profession. The award was presented at the association's recent annual meeting in North Bay.

* *

Prof. Kenneth Graham, English Language and Literature, attended the seventh International Congress on Enlightenment in Budapest, where he chaired a round table on William Beckford and presented a paper on William Godwin's *Coleb Williams*. Graham was also an invited speaker at the second International Sintra Congress on Romanticism in Portugal.

* *

The Department of Microbiology is honoring four retiring faculty members at an evening banquet Dec. 1 in Peter Clark Hall. Anyone in the University community wishing to recognize the contributions of Profs. Margaret Hauser (41 years), Carl Jordan (37 years), Ken Gregory (33 years) and Ron Smith (27 years) is invited to attend the dinner. For more information, call Frances Newcombe at Ext. 2741.

* *

Two graduate students in the Department of Animal and Poultry Science have been recognized at scientific meetings. At the annual meeting of the Canadian Society of Animal Science. Karen Beauchemin, a PhD student studying under Prof. Jock Buchanan-Smith, placed first in the graduate student competition. Her paper was titled "Evaluation of Effective Fibre Content of a Silage-Based Dairy Cow Diet." M.Sc. student Leah Braithwaite placed third. At the annual meeting of the Poultry Science Association in Oregon, Braithwaite, whose supervisor is Prof. Doug Morrison, won first place in the environment-management section with her paper "A Technique for the Exposure of Broiler Eggs to Microwave Radiation During Incubation."

* *

Visiting Professor

Dr. Robert Erickson, department of human genetics, University of Michigan, will be a short-term visiting professor in the School of Human Biology, the Department of Molecular Biology and Genetics and the Department of Biomedical Sciences Oct. 26 and 27.

While here, Erickson will give two seminars. On Oct. 26, he will discuss "Studies in Sex Determination in Mouse and Man: The Y Chromosome and Autosomal Loci" at 4:10 p.m. in Room 108, Human Biology building. On Oct. 27 at noon in Room 028, Botany-Genetics-Zoology building, his topic is "Transgenic Mice and Regulation of Genes by Antisense Constructs." Erickson's visit is sponsored by the intercollege activities fund. O

Correction

A caption accompanying a photo of participants in the mid-term conference of the Sulawesi project, published in the Sept. 30 issue of *At Guelph*, should have read that the project is jointly funded by the government of Indonesia and the Canadian International Development Agency. The caption should also have stated that project director Prof. Harry Cummings has a joint appointment with the University School of Rural Planning and Development and the Department of Agricultural Economics and Business. O

Cathy Wilson, who graduated in 1984 with a B.Sc. in agricultural business, has been appointed supervisor of 4-H programs for the Ontario Ministry of Agriculture and Food.

* *

Rodrigue Hurtubise, a 1981 graduate of the bachelor of science in agriculture program, has been appointed French-language services co-ordinator for the Ministry of Agriculture and Food. He will be in charge of guiding the development of the ministry's French services for the whole province. O

Job opportunities

As of *At Guelph* deadline Oct. 16, 1987, the following opportunities were available:

Clerk I, Library; temporary full-time from October/87 to April/88. Normal hiring range: $276.64 to $300.60 per week.

Technician, Pathology; part-time grant position, 20 to 25 hours per week. Salary commensurate with qualifications and experience.

Research Assistant, Pathology. Starting date: October/87 to January/88. Funding now available for three years. Salary commensurate with training and experience. Forward applications to Dr. Peter O'Brien, Pathology Department.

Laboratory Technician, Biomedical Sciences. Salary range: $303.42 minimum; $350.66 job rate (level 5); $436.76 maximum.

Design Draftsman/woman (electrical); Engineering Department. Salary range: $414.48 minimum; $479.33 job rate (level 5); $594.59 maximum.

Liaison Co-ordinator, Dean's Office, OAC; contractually limited, full-time position — three years. Apply to OAC Dean Freeman McEwen.

The following positions were available to on-compus emplayees only:

Secretary I, Clinical Studies. Salary range: $276.64 minimum; $320.83 job rate (level 5); $385.08 maximum.

Co-ordinator, Community Relations, Public Relations and Information. Salary range: $24,123 minimum; $30,154 midpoint; $36,185 maximum. Normal hiring range: $24,123 to $28,345.

Clerk/Cashier, Athletics. Salary range: $303.42 minimum; $350.66 job rate (level 5); $436.76 maximum.

Senior Program Assistant, University School of Part-Time Studies and Continuing Education. Salary range: $303.42 minimum; $350.66 job rate (level 5); $436.76 maximum.

Custodian 4, Housekeeping Department. Job rate: $11.20 per hour; probation rate: $ .20 per hour lower than job rate.

Senior Analyst, OVC Computer Group. Salary commensurate with qualifications and experience.

General Cafeteria Helper, Food Services; temporary full-time. Start rate: $7.39 per hour; job rate: $8.99 per hour.

Graduate News

The following graduate students have successfully defended their final PhD oral examinations and will graduate at winter convocation:

Victor Manuel Bernal Olivera, Food Science, whose final thesis title is "Factors Determining Textural Characteristics of Restructured Beef"; Suzanne Marie Filteau, Nutritional Sciences, "The Influence of Supplemental Triiodothyronine on the Immune System of Malnourished Mice"; Ousmane Guindo, Agricultural Economics and Business, "Benefit-Cost Analysis of Ontario Corn Research and Extension Activities, 1951-1981"; Edward Joseph Kendall, Crop Science, "Physical and Chemical Alterations in Winter Wheat Membranes Arising from Freeze-Thaw Injury"; Deborah Charmaine Poff, Philosophy, "The Principles of Feminist Methodology"; Janis Avril Randall, Family Studies, "Evaluation of Serum, Urine and Hair Chromium Levels as Indices of Chromium Exposure and the Relationship of these Indices to Serum Lipid and Insulin Levels."

The following graduate student has successfully defended her D.V.Sc. oral examination and will graduate at winter convocation:

Therese Lanthier, Clinical Studies, whose major paper is entitled "Laser Dopple Flowmetry to Determine Blood Flow in Island Axial Pattern Skin Flaps as an Indicator of Viability." O

A scene from the opening production in the Department of Drama's 1987/88 season — Shakespeare's "Richard III," directed by Heinz-Uwe Haus of East Berlin and designed by Allan Watts. It opens Oct. 26 at 8 p.m. at the Inner Stage and continues until Oct. 31. Admission is $4 Monday to Wednesday and $5 Thursday to Saturday; a special preview Oct. 25 at 3 p.m. is $2.50. Tickets are available at the University Centre box office.

Photo by John Majorossy, Photographic Services

Biotech Day Oct. 29

"Promises and Realities in Biotechnology" is the theme of the fifth annual Biotech Day being held at The Arboretum Centre Oct. 29.

Organized by Guelph-Waterloo Biotech, the workshop will include discussions of university/industry relations, government expectations and support of biotechnology, industrial opportunities for biotechnological entrepreneurship and biotechnology in the 1990s.

Speakers include Dennis Lawson, director of corporate development, Cyanamid Canada Inc.; Dr. David Shindler, senior policy analyst, Ministry of Industry, Science and Technology; John Vose, director of technology development, Connaught Laboratories; Dr. Ernie Holmes, dean of research, University of Waterloo; Dr. David Wheat, senior consultant, Arthur D. Little, Cambridge, Mass.; and Dr. John Cross, president of Philom Bios, Saskatoon.

Guelph-Waterloo Biotech, a research consortium of more than 100 faculty from the universities of Guelph and Waterloo, is organized into four centres for the study of industrial, animal, microbial and plant biotechnology.

To register for the workshop, call Marj Brooks at Ext. 8773. O

Focus on agricultural ethics

by Owen Roberts

Ethical issues in agriculture, such as animal welfare, have generally been debated from an emotional viewpoint. But two Guelph faculty hope to change that through the *Journal of Agricultural Ethics*, an intemational quarterly designed to offer a forum for discussing moral issues related to food and food production.

Prof. Frank Hurnik, Department of Animal and Poultry Science, and Prof. Hugh Lehman, Department of Philosophy, are issuing a call for papers for the publication, which will debut in January 1988. It will be published by Taylor & Francis of New York.

"We hope this publication will act as a bridge between those who philosophize about agricultural ethics and those who are actively involved in plant and animal use," says Hurnik. "It's essentially going to be a scholarly, refereed journal, but it won't be bogged down with specialized technical jargon. As a result, we believe it will also be useful to the farm community, and we expect leaders from that field will be contributors, not just readers."

Lehman says there will be no prejudice in the editorial judgments. "We are open to papers defending any position on controversial moral issues concerning agriculture," he says. "We shall try to ensure that the papers accord with scientific knowledge and that the argumentation is logically sound."

Hurnik has assisted in developing recommended codes of practice for chicken and pigs and is currently working on a code for beef cattle. Widely distributed in the agricultural community, the published codes are a joint effort of Agriculture Canada and the Canadian Federation of Humane Societies.

Hurnik teaches a course on farm animal care and welfare; Lehman teaches a course on ethics in agriculture. They assist each other in these courses and have published several papers together on issues pertaining to agricultural ethics.

About three years ago, the two professors agreed there was a need for a journal devoted to such ethical questions as animal welfare, the responsibilities of agricultural producers and the use of biotechnology. So they secured a publisher and amassed an impressive 23-member editorial board from universities and institutes in Canada, the United States, Belgium, Israel, Egypt, Nigeria, India, Switzerland, West Germany, France, Japan and England.

The first edition will contain five or six papers and will be about 100 pages long.

OAC Dean Freeman McEwen says the journal is an asset to the University and will be a vital element in discussions about agricultural ethics. "Agriculture affects every member of society," he says. "Important ethical issues can't be discussed in isolation." O

Social responsibility committee seeks issues

The President's Advisory Committee on Social Responsibility, whose mandate is to review and advise on matters of institutional social responsiblity, invites the University community to identify issues or concerns for consideration by the committee.

Once the agenda for review has been determined, all interested parties will be invited to make a written or oral presentation to the committee.

Communications should be submitted in writing to Dale Lockie, University Secretariat, Level 4, University Centre. The deadline for submissions for the fall session of the committee is Nov. 4. O

Permeameter wins technical accolades

The Guelph Permeameter, a simple but sophisticated measuring device for soil water movement, has been named by *Agricultural Engineering* magazine as one of the top 50 outstanding innovations in product or systems technology for 1986/87.

The technology behind the device, which was developed by Prof. David Elrick, Norbert Baumgartner and Dan Reynolds of the Department of Land Resource Science, is jointly owned by the University and the Ontario Ministry of Agriculture and Food, which supported the research.

For commercial purposes, the device has been licensed to Soilmoisture Equipment Corp. of Santa Barbara, Calif., by the Office of Industrial and Innovation Services.

The permeameter simplifies the measurement of soil hydraulic conductivity, which is important in understanding water movement for drainage, irrigation, septic disposal systems, waste spill sites and landfill leachates. Traditional techniques were less accurate and more complex, requiring two operators and large volumes of water. The Guelph Permeameter is easy to read and operate, requires just one technician and is portable enough to fit into a large-size suitcase.

The permeameter is featured in a special section of the September/October issue of *Agricultural Engineering*. O

"Student for a day" part of National Universities Week

National Universities Week, which runs Oct. 24 to Nov. 1, will focus attention on the role of universities in community, regional and national development. The University is participating with a number of events and activities on this year's theme, "Investing in Our Future."

Highlights of the week include a production of *Richard III* by the Department of Drama, an author's night at the Bookshelf Cafe, a reading from the diaries of Lucy Maud Montgomery and a dialogue on nuclear war.

On Oct. 25 at 7 p.m., poet James Harrison, a professor in the Department of English Language and Literature, author/editor Marianne Micros, co-ordinator of English-language services on campus, and poet Tim Inkster, owner of the Porcupine's Quill publishing company in Erin, will read from their works at the Bookshelf Cafe. Afterwards, the audience is invited to participate in an open reading.

Under the direction of Heinz-Uwe Haus of East Germany, drama students will perform *Richard III* at 8 p.m. at the Inner Stage from Oct. 26 to Oct. 31.

Prominent Guelph educators, politicians, business people and community workers will visit the campus as "students for a day" Oct. 27. Accompanied by a student, tbey will attend lectures and laboratories or visit the Athletics Centre or the McLaughlin Library.

Barbara Conolly, Canadian Children's Literature, will don period garb to read excerpts from the second volume of *The Diaries of L.M. Montgomery*, edited by Profs. Mary Rubio and Elizabeth Waterston, English Language and Literature. The reading will take place Oct. 28 at 12:10 p.m. in Room 103, University Centre.

A dialogue on nuclear war delivered in the style of an old-fashioned medicine show and titled "Bossin's Home Remedy for Nuclear War" is also planned for Oct. 28. It begins at noon in the University Centre courtyard.

Musical events planned during National Universities Week include a Thursday noon-hour concert with Yan and Yana Voldarsky on the viola and piano Oct. 29 at 12:10 and 1:10 p.m. in Room 107, MacKinnon building, the Canadian Opera Company Ensemble Oct. 30 at noon in Peter Clark Hall and children's singer Sandra Beech Oct. 31 at 1 and 3 p.m. in War Memorial Hall. Admission to the Beech concert is $6; the other performances are free.

Also planned for the week of Oct. 24 to Nov. 1 is a display of University photographs at Pond's Camera on Wyndham Street. In addition, University faculty will speak to community and high school groups on topics ranging from free trade to coping with back pain. O

Courses

Weekend seminar focuses on career women

The working woman's desire for both personal and professional development has prompted the University to expand its continuing education program to include a weekend seminar that will enable career women to share experiences and learn from each other's successes.

Continuing Education has reserved Oct. 30 and 31 for women seeking new insights and skills in adapting to changes in society — women about to re-enter the work force or change careers, women starting up a cottage business or undergoing a transition in life or lifestyle.

A highlight of the two-day seminar will be a Friday night banquet address by Paula Caplan, author of *Myths of Women's Masochism*.

Workshop leader Ruth Armstrong will help participants understand what influences people, how to develop authority and the kind of power they could have. Former Guelph alderperson Margaret Mackinnon will be a guest in this session. Other areas of concern will include financial planning for working women, starting a business and developing a professional image.

Dr. Margaret Brillinger, a family therapist and educational consultant, will lead a session on effective interpersonal communications, with tips on how to build self-confidence. A discussion of leadership styles and how to develop your own style will be the topic of a workshop led by Audrey Herrema, director of the popular women's program at Toronto's Ryerson Polytechnical Institute.

Because of limited enrolment, early registration is advised. Contact Continuing Education in Room 160, Johnston Hall, Ext. 3956. O

Coming events

WEDNESDAY, Oct. 21

Concert - Hugh Marsh, noon, War Memorial Hall, free.
Biochemistry Seminar - "Studying Proline Porter II in *Escherichia coli*: Stress Brings Success," 12:10 p.m., MacNaughton 222.
Worship - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5; Great Commission Students Fellowship Meeting, 7 p.m., FACS 17B.
Botany Seminar - "Growth and Development of Winter Rye at Low Temperatures," Marylin Griffiths, 3 p.m., Botany/Genetics/Zoology 117.
Cycling Club - Puslinch Lake, 29 miles, 5 p.m., UC south doors.
Speaker Series - "Living in the Killing Fields," Dith Pran, 7:30 p.m., War Mem Hall, $6.50 general, $5.50 students.

THURSDAY, Oct. 22

Red Cross - Blood Donor Clinic, 10 a.m. to 5 p.m., UC 103.
Pathology Seminar - "An Introduction to Bacterial Gill Disease: Comparative Respiratory Pathophysiology," David Speare, 11:10 a.m., Pathology 220.
Instructional Development - Demonstration of EDNET, noon, Blackwood Hall 211.
Society for International Development - "Experiences in Nicaragua," Erin Fletcher, noon, MacKinnon 132.
Psychology Colloquium - "Control of the Eye and Control of the Mind's Eye," John Findlay, 12:10 p.m., MacKinnon 232.
Concert - Amsterdam Guitar Trio, 12:10 and 1:10 p.m., MacKinnon 107, free.
Biology Seminar - "Some Thoughts On Hazardous Waste Management," Donald Chant, 1 p.m., J.D. MacLachlan 102.
Worship - Social Evening, Ecumenical Campus Ministry, 5 p.m., Mature Students Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Social Evening, Roman Catholic Ministry, 6 to 9 p.m., UC 335.
Apiculture Club - "Traditional Honey Hunting in Malaysia," Makhdeir Mardan, 5:10 p.m., Graham Hall 200.
Guelph International Film Festival - gala opening, "Man Facing Southeast," 7 p.m., Odeon Theatre, $5.

FRIDAY, Oct. 23

Worship - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Ecumenical Holy Communion, 1:10 p.m., Chapel.
Guelph International Film Festival - screenings from 5:30 to 9 p.m. in Macdonald Hall 149 and Landscape Architecture 204, and from 7 to 9:35 p.m. at The Loft, Carden Street; "The Invisible Homeless," video art, 7 p.m., Ed Video, Wyndham Street, $4 individual session, $12 pass.
Dinner Theatre - Theatre in the Trees, "Suitehearts," 6 p.m., The Arboretum, $25.50.

SATURDAY, Oct. 24

The Guelph Field Naturalist - Fall Photographic Outing, Stan Kozak, 7:30 a.m., meet OVC parking lot, corner Gordon and College.
Conference - Scottish Studies, registration 9:45 a.m., MacKinnon 117A, $10 general, $6 seniors, students free.
Exhibition - "Site — Structure," Tony Urquhart and Robert Wiens, continues to Jan. 17, noon to 5 p.m., Macdonald Stewart Art Centre.
Guelph International Film Festival - screenings from 1 to 10:15 p.m. in Macdonald 149, Landscape Architecture 204, The Loft, Carden Street; Third World workshop: "Video," Judith Doyle, 1 to 5 p.m. and 7 to 9 p.m., Ed Video, Wyndham Street, $4 individual session, $12 pass.
Volleyball - Alumni at Guelph, men's, 3 p.m., Athletics Centre.
Dinner Theatre - Theatre in the Trees, "Suitehearts," 6 p.m., The Arboretum, $25.50.

SUNDAY, Oct. 25

Cycling Club - Belwood Lake, 50 miles, 10 a.m., UC south doors.
Worship - Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry (Anglican, Presbyterian, United, Lutheran), 10:30 a.m., Chapel, UC Level 5.
Macdonald Stewart Art Centre - Open House and Art Care Clinic, 1 to 4 p.m.
Guelph International Film Festival - gala closing, 1:45 p.m., Odeon Theatre, reception to follow, $5; "New Homes, Old Wounds," 7 p.m., Ed Video, Wyndham Street, $4.
Arboretum - Sunday Afternoon Walk, "Ghosts, Ghouls and Goblins," 2 p.m., J.C. Taylor Nature Centre.

MONDAY, Oct. 26

Ethics in Global Development - "The Nature of International Development," Jim Shute, noon, UC 103.
Psychology Colloquium - "Road Accidents and the Conservation of Misery," Ray Fuller, 2 p.m., MacKinnon 310.
Human Biology Seminar - "Studies in Sex Determination in Mouse and Man: The Y Chromosome and Autosomal Loci," Robert Erickson, 2:10 p.m., Human Biology 108.
Worship - Catholic Mass, 5:10 p.m., Chapel, UC level 5.
Drama - "Richard III," 8 p.m., Inner Stage, MacKinnon 101, $4 and $5, continues to Oct. 31.

TUESDAY, Oct. 27

Human Biology Seminar - "Transgenic Mice and Regulation of Genes by Antisense Constructs," Robert Erickson, noon, Botany/Genetics/Zoology 028.
Worship - Christian Issues and Apologetics, noon, UC 103; Roman Catholic Mass, 12:10 p.m., Chapel, UC Level 5 Bible Study, 7 p.m., UC 332; Inquiry into Catholicism, 4:10 p.m., Room 335, UC; Faithfully Curious, 5 p.m., UC 335.
Our World - "Garbage: Burn It or Bury It," 12:10 p.m., UC 442.
Engineering Seminar - "Hydrological and Erosional Implications of Soil Water Movement," Bill Stolte, 3:10 p.m., Thornbrough 110.
Physics Colloquium - "The Holy Shroud of Turin: Relic, Fake or Icon," William Dale, 4 p.m., MacNaughton 113.

WEDNESDAY, Oct. 28

National Universities Week - Bossin's Medicine Nuclear Show, noon, UC courtyard; Reading from *The Diaries of L.M. Montgomery, Volume 2*, Barbara Conolly, 12:10 p.m., UC 103.
Biochemistry Seminar - "Aspartyl proteinases: Their Role in Food Science," Rick Yada, 12:10 p.m., MacNaughton 222.
Worship - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5; Great Commission Students fellowship meeting, 7 p.m., FACS 17B.
Botany Seminar - "Interactions of *Agrobacterium tumefaciens* with Soybean Explants in Tissue Culture," Dalia Kudiska, 3 p.m., Botany/Genetics/Zoology 117.
Cycling Club - Hespeler (novice ride), 25 miles, 5 p.m., UC south doors.
Skills Training Series - "Canada World Youth: An Introduction to the Organization's Expectations for Hiring Group Co-ordinators," 7 p.m., UC 332, $2.50.

THURSDAY, OCT. 29

Pathology Seminar - "Regulation of Growth of Normal, Preneoplastic and Neoplastic Hepatocytes," Gord Wollenberg, 11:10 a.m., Pathology 220.
Society for International Development - "Communications in Rural Development," Marie Protz, noon, MacKinnon 132.
Worship - Meet and Eat, noon, UC 335; Ecumenical Campus Ministry, 5 p.m., Mature Students Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Social Evening, Roman Catholic Ministry, 6 to 9 p.m., UC 335.
Concert - Ezio Mariani de Amicis, violin, 12:10 and 1:10 p.m., MacKinnon 107, free.
Biology Seminar - "Kinetics to Clones: Membrane Enzymology in *Escherichia coli*," Janet Wood, 1 p.m., J.D. MacLachlan 102.
Apiculture Club - "The History of Apiculture at the University of Guelph," Gord Townsend, 5:10 p.m., Graham Hall 200.
Volleyball - Brock at Guelph, men's and women's, 7:47 p.m., Athletics Centre.

FRIDAY, Oct. 30

Schedule of Dates - Last day for applications to graduate for winter convocation.
Worship - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Ecumenical Holy Communion, 1:10 p.m., Chapel, UC Level 5.
Skills Training Series - Proposal Writing, Kath Beaven, 10:30 a.m., MacKinnon 132, $2.50.
Music - Canadian Opera Company Ensemble, noon, Peter Clark Hall, free.
Current Issues in Agriculture - "Plant-Derived Pharmaceuticals," 3 p.m., Crop Science 121.
Volleyball - Waterloo at Guelph, men's, 7:47 p.m., Athletics Centre.

SATURDAY, Oct. 31

Children's Concert - Sandra Beech, 1 and 3 p.m., War Mem Hall, $6.50.

SUNDAY, Nov. 1

Cycling Club - Maryhill (Novice Ride), 25 miles, 10 a.m., UC south doors.
Worship - Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry (Anglican, Presbyterian, United, Lutheran), 10:30 a.m., Chapel, UC Level 5.
Arboretum - Sunday Afternoon Walk, "Food For Thought," 2 p.m., J.C. Taylor Nature Centre.

MONDAY, Nov. 2

Schedule of Dates - Fortieth Class Day, DVM program.
Ethics in Development - "Development Under Repressive Regimes," 12:10 p.m., UC 103.
Worship - Catholic Mass, 5:10 p.m., Chapel, UC level 5.
Information Session, Eating Disorders, sponsored by CSRC, 5:15 to 7 p.m., UC 103.

TUESDAY, Nov. 3

Worship - Catholic Mass, 12:10 p.m., Chapel, UC Level 5; Christian Issues and Apologetics, noon, UC 103.
Our World - "If You Love this Planet," 12:10 p.m., UC 442.
Engineering Seminar - "Extension in Agricultural Engineering - Model Setup in Nigeria," Yohanna Yiljep, 3:10 p.m., Thornbrough 110.

WEDNESDAY, Nov. 4

Worship - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5; Great Commission Students fellowship meeting, 7 p.m., FACS 17B.
Botany Seminar - "Molecular and Genetic Analysis of Purine Metabolism in *Arabidopsis thaliana*," Barbara Moffatt, 3 p.m., Botany/Genetics/Zoology 117.
Cycling Club - Downey Road (novice ride), 17 miles, 5 p.m., UC south doors.

Theatre in the Trees presents "Suitehearts" every Friday and Saturday at 6 p.m. at The Arboretum. Above, the cast at the gala opening performance: seated, left to right, Richard Higgin, Joanne Evans, Barbara Blaxall, Greg Hawkins and Wayne Moore. Standing, left to right, Prof. Keith Ronald, director of The Arboretum, Marg Snowdon, play co-ordinator and secretary to CBS Dean Bruce Sells, and play director John Snowdon. Photo by PRt

Personals

For Sale: Folding exercise bike, Candle stereo/record player with two speakers, Ext. 6782 or 763-3848 after 6 p.m. 1977 Yamaha XS-750, shaft drive, good condition, can be certified, Art, Ext. 3926 or 1-894-5348. PDP 11/23 computer, RSX-11M operating systems, two RLO-2 disk drives, eight serial ports, three CRTs, Robert, Ext. 4667. Apple II Plus computer, two disk drives, Hitachi monitor, Centronics printer, games paddles, software, Ext. 3365 or 824-4623 evenings. Eight 7" x 32" pine shutters, two 12" x 32" pine shutters, outside overhead light, inside hall light, garbage disposal, 836-2868. 1983 Plymouth Reliant, one owner, certified, standard, four-door, 821-1447 after 5 p.m. 1981 Volkswagen Jetta, Ext. 3513 or 837-1278. 1983 Honda Civic wagon, five-speed, certified, Regan, Ext. 8168 or 822-9640 evenings. Chez Jordan evening gown, size 9/10, Ext. 8583. Honey, Mary, Ext. 4644 or 824-6628. Pepplar bedroom suite, triple dresser with mirror, chest, night table, headboard and 54" bedframe, medium oak, 822-1116 after 6 p.m. Sharp EL-5103S calculator, bicycle, fishing rod, three-person boat with oars and pump, three-person tent, ginseng, Wong, Ext. 8527. 1983 four-door Plymouth Reliant, four-cyclinder, certified, cruise control, 68,000 km, light-brown, Ext. 3700 or 824-9603 after 5 p.m. Commodore 128 computer, 1571 disk drive, 1200 baud modem, books and software, Dave, 824-3807. Eight-piece mahogany dining suite; sofa and chair, 824-8298. Oil painting, winter scene, predominantly blue, 824-8523 after 4 p.m. Two-storey house, five minutes from University, 1,600 square feet, large lot, six months old, 821-4052. National Geographics, 1960-1978, with hardcover index; Sony reel-to-reel tape deck (TC 250), 416-248-9286. Belt sofa, living room chair, CCM men's 10-speed bicycle, three F78-14 snow tires, 763-0468. Winter coat, winter pant coat, leather suitcase, set of ladies' luggage, electric can opener, 822-5106. Baby equipment and girls' clothing size 0 to one year, in good condition, 823-1212. Tires, 50 per cent off seconds, up to 30 per cent off first-line new tires, 843-4445 after 5 p.m. Maytag apartment size dryer, crib and mattress, Singer portable sewing machine, Ext. 3078 or 824-7779. Four-bedroom house, unique wooded location, six-minute drive to University, 823-8707. Two Bridgestone SF radials, 175/70SR13; two BF Goodrich radials T/A, 205/60SR13, with rims, 821-8296 evenings. Two desks, GE floor polisher, rear-window louvre for 1985 white Pony, 824-3993 after 5 p.m.

Wanted: Fisher Price house set in good condition, babysitter with sign language experience for Thursdays and Fridays, Debby, Ext. 2468 or 836-4038. Wooden desk with 30" x 60" work surface, two pedestals, Ext. 8749 or 836-4889. Farm assistant to care for animals and farmhouse in Rockwood in exchange for small one-bedroom apartment plus salary, 416-368-4048. Mature non-smoker to care for two boys aged six months and five years, full time, light housekeeping, long-term position, large house in University area, beginning January 1988, references required, 821-5341 after 5 p.m.

Available: Carpenter for any indoor/outdoor projects, Dave, 824-3807. Angora rabbit with cage, four months old, Ext. 6915 or 653-2838 after 6 p.m. and weekends. Typing, word-processing or data entry, have own PC, 824-2426. Editing and proofreading articles or manuscripts, fast and accurate, 821-4052. Word processing, high quality, low rates, 837-1410 or 822-9945. Professional typing, 824-6065.

For Rent: Split-level four-bedroom house, furnished, large private lot, dishwasher, microwave, 10-minute walk from University, $1,000 a month, available Jan. 1 to July 31, 1988, Ext. 3692 or 836-2484. Renovated three-bedroom house, 1,500 square feet, five appliances, within walking distance of University and downtown, prefer graduate students or faculty, available Jan. 1 or Feb. 1 to Aug. 30, 1988, $750 a month plus utilities, Ext. 2413. Four large horse stalls at private stable 10 miles north of Guelph.

Farming issues are of worldwide concern

The issues concerning farmers worldwide concern us all. That was the message of a World Food Day discussion on campus last week.

"Agriculture has to be presented with vision and linked to issues that stir movers and shakers," freelance radio journalist Carole Giangrande told an audience of about 125 that included members of the University, city and farming communities.

"We hurt ourselves and the farming community by looking at agriculture as nothing but an industry," the author of *Down to Earth: the Crisis in Conadian Farming* said. By applying the values of the assembly line to the farm, both farmers and consumers "are getting shafted," she said, and food is treated as a raw material, a resource to be processed, rather than a human or social need.

"Canada has the second cheapest food in the world (U.S. food is cheapest) and three-quarters of the food dollar goes to the middleman," said Giangrande. "We must maximize the farmer's place in the food system." She reminded the audience that there are only 300,000 farmers in a Canadian population of 25 million.

Peter Hendry, for many years editor of the United Nations Food and Agricultural Organization periodical *CERES*, discussed some of the problems of farmers in developing countries. "If we've learned anything in the last 35 to 40 years," he said, "we've learned that you can't devise solutions in Washington or Rome. Answers have to be formulated on the ground with the people involved."

As in Canada, less successful farmers in developing countries are leaving their land. But often the land they farm has become so divided that families are trying to support themselves on less than a quarter of an acre. As new technologies become available, the more successful farmers buy up these small holdings, making more people landless. Current estimates of landless people in Third World countries start at 200 million, Hendry said.

Looking to the potential for improved crop production in developing countries, Hendry said farmers have great capacity for innovation. But there is a need to focus on affordable low-risk technologies for their use. No one, however, can "expect agriculture to absorb all the surplus labor in the rural sections of the Third World," he said. There is a need for decentralization of industry to provide employment for the rural poor where they live.

The third panelist, Ontario hog farmer Graham Hart, said one way to overcome food shortages is to make sure it is financially worthwhile for a farmer to grow a crop. Cheap food policies in many parts of the world have disturbed local marketing systems and discouraged farmers from growing essential foods, Hart said. Cheap grains from overseas and food aid also put Third World farmers out of business.

Hart, who spent a period with CUSO in Nigeria, said European governments support farmers because they want to guarantee adequate food. But Europeans still remember the starvation of the Second World War.

The question of farm organizations — grassroots groups and networking — was raised by Giangrande and Hendry, who pointed to the need for grassroots support in achieving land reform. Giangrande suggested Canadian farm organizations could do more to educate the city dweller by networking with urban groups such as churches and environmentalists.

Members of the audience and speakers also pointed to the environmental problems posed by pesticides, erosion and compacting. Giangrande said the University of Guelph could make a real contribution in this area by looking at organic farming, perhaps at a research station.

The World Food Day panel was moderated by Rural Extension Studies professor Doug Pletsch and sponsored by the Development Education Program, the World Food Day committee, CUSO, the Ontario Public Interest Research Group and Guelph's Society for International Development. O

Photo by Margaret Chalmers, Media Production, OVC

Prof. Geoffrey Sumner-Smith, Clinicol Studies, receives the student chapter Americon College of Veterinary Medicine oword of excellence from Shonnon, o resident of the Veterinary Teaching Hospitol. The oword wos given to Sumner-Smith for his film "Lameness in the Dog;" he won the some oward in 1984 for his film "Normal Locomotion in the Dog." Also in the photo ore Roy Pollard, Media Production, Office for Educationol Practice, Greg Keefe, SAVMA student representative, ond Dr. Chris Nosh, director of OEP.

Retirees gather Oct. 21

Some 500 retirees are expected to return to campus Oct. 21 for the 13th annual retirees' luncheon.

A short, formal program has been planned that will include remarks by President Burt Matthews and a guest speaker — retiree John Eccles, former director of Residences. Eccles will speak on "Why the University is in Guelph."

There will be plenty of opportunity for retirees to renew acquaintances with old friends. Light refreshments will be served. For more information, call Personnel at Ext. 8775 or 8776. O

UNIVERSITY of GUELPH

At Guelph

October 28, 1987 Volume 31 Number 32

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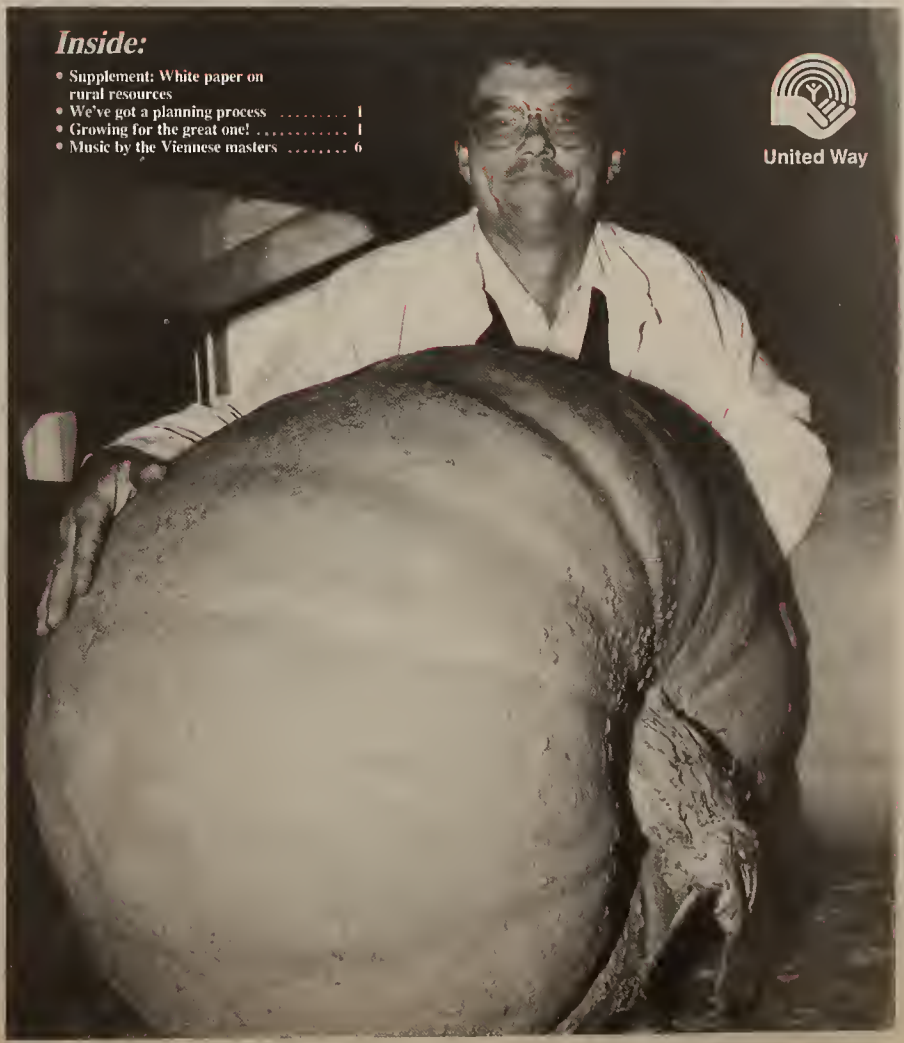
United Way



UNIVERSITY of GUELPH

At Guelph

Rural resources paper needs public comment

A public meeting for the University community on the *White Paper on 'Rural Resources' at the University of Guelph. "Where to from here?"* will be held Nov. 12 from noon to 1:30 p.m. in Room 442, University Centre.

The white paper is a supplement in this issue of *At Guelph* to both internal and external readers, published at the request of Prof. Walter Kehm, director of the School of Landscape Architecture and task force chair.

Kehm says the committee wants responses and questions from faculty, staff, students, alumni and concerned citizens on the future direction the University should be taking on rural resources.

The white paper, calling for the University to take decisive action now to formally recognize the field of rural resources, defines issues and opportunities and scenarios available to the University, says Kehm, but it is still "us talking to ourselves" until there is public discussion.

Kehm will chair the meeting, which will be attended by other members of the task force — Profs. Nora Cebotarev, Sociology & Anthropology; Ward Chesworth, Land Resource Science; John FitzGibbon, University School of Rural Planning and Development; Ken Grant, Economics; Elaine McCreary, Rural Extension Studies; Doug Ormrod, dean of Graduate Studies; and Keith Ronald, The Arboretum/Zoology.

The task force found many departments and individuals involved with rural resources; of the more than 700 University faculty, 45 commit at least 40 per cent of their time to rural resources in their area of work.

But it also discovered a lack of co-ordination, some duplicatiun and overlapping, and no mechanisms to address environmental issues, environmental policy and stewardship of resources at the national and international levels, says Kehm. The task force found that the University's commitment to rural resources lacks a vision and a mission, he says.

"We must debate the larger purpose — the University's unique position in the development of a holistic idea about Canada's — and the world's — future and its environmental stewardship."

The opportunities and challenges for study and accomplishments in rural resources, particularly multidisciplinary, problem-focused research, are considerable, says Kehm. This University has the potential to be a leader in education programs, research and extension in rural resources, "especially in our unique niche, dealing with the interaction of people with the natural environment."

The Committee on University Planning established the task force in 1987 to review current opportunities and resources for teaching, research and services at the University, related to the planning, development and management of rural resources, and to recommend to CUP ways to develop Guelph's strengths in this area.

The task force addresses some fundamental changes that must occur to create a new focus for rural resources and lists some options, which are under consideration:

- re-order OAC and the colleges of Social Science and Biological Science;
- create a rural resource centre;
- create a school or institute of rural resources in the Faculty of Graduate Studies; and
- create a college of rural development.

The task force won't make any final recommendation on these until after the public discussion.

Comments at the public meeting and written submissions to the task force will be incorporated into a final report, with recommendations on how to develop a centre of excellence in rural resource studies. The final report is expected to go to CUP in December, and on to Senate early in the new year. ○

And now the work begins . . .

The University has an annual strategic planning process, and "now the work begins," said President Burt Matthews after Senate gave the nod Oct. 20 to the remaining motions arising in the *Report of the Committee on University Planning on the Strategic Planning Paper.*

Senate accepted the report for discussion at a special meeting Sept. 29, but time ran out before it could deal with all of CUP's motions arising from the paper. Senate dealt with the last of the motions last Tuesday.

Senate went back to the first motion on procedures for the development of a strategic plan and approved it after some discussion, mainly on the composition of the strategic planning group and CUP, and the time frame for presenting the discussion paper to the University community.

Prof. John Simpson, Physics, said he would present a motion at Senate's November meeting that the Senate Committee on Bylaws and Regulations consider restructuring CUP to assure its independence from the strategic planning group.

Next year's annual strategic planning process will follow this sequence: information gathering, an opportunity for input from the University-at-large, preparation of a discussion paper as a basis for open, University-wide debate, followed by the formation of motions by CUP that would be presented to Senate for approval.

Senate decisions, and the president's decision on issues outside of Senate's mandate, will constitute the plan for the current year and guide the budget allocation process. Matthews said he would consider a request by Prof. Donna Lero, Family Studies, that next year's discussion paper be released at a time when more students were on campus so they could have more opportunity for discussion and response.

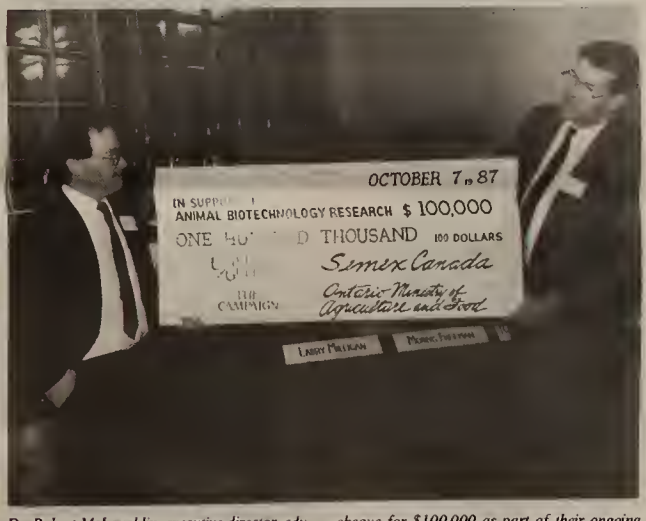
Senate also endorsed motions dealing with goals to be achieved in the planning process.

- To improve liaison efforts with high schools and emphasize areas of particular interest to students where the University has strengths that they may not be aware of.
- To increase the percentage of entrants who are Ontario scholars so that it equals or exceeds the system average by the end of five years, and
- To reduce the attrition rate of students by 20 per cent over the next five years.

These are all the responsibility of the vice-president, academic.

Senate also instructed the Board of Graduate Studies to evaluate the impact of changes and the resources needed to make the following changes in the characteristics of graduate programs — increase total graduate enrolment by 40 per cent should all existing plans for graduate

Continued on page 2.



Dr. Robert McLaughlin, executive director, education and research division, Ontario Ministry of Agriculture and Food, second from left, and Dr. Morris Freeman, general manager of Semex Canada, right, present the University with a cheque for $100,000 as part of their ongoing support of the Smiley-Reeds-McDonald chair in Animal Biotechnology, which is held by Dr. Keith Betteridge.

John Majorossy, Photographic Services

The great pumpkin: it's really a great squash!

by Owen Roberts

Environmental biology research technician Richard McGraw, on the front cover, isn't too excited about the "Great Pumpkin" he's just harvested at the Cambridge Research Station. After all, it's only eight feet in diameter and weighs a mere 275 pounds!

"I had one in 1984 that tipped the scales at 311 pounds and missed first prize at the Royal Winter Fair in Toronto by just one pound," he says. "That was a monster."

McGraw's hulking vegetable is the largest grown in Cambridge this year. It's about 25 pounds heavier than the next closest effort, which, coincidentally, he also grew. Both of the lunkers were the offspring of seeds he kept from his fair entry.

"All the competitions you hear about are referred to as giant pumpkin contests," says Prof. Robert Coffin, Horticultural Science, who co-ordinates field trials for commercial varieties of pumpkins and squash at Cambridge. "But the fact is, these are Hungarian mammoth squash. Pumpkins just don't grow that big."

Other than size, Hungarian mammoth squash differs from pumpkin mainly in the whitish color of its inner flesh. On McGraw's 275 pounder, that wall of flesh is almost six inches thick. Some squash varieties grown in Cambridge and elsewhere in Ontario are appreciably less stringy and easier to process than pumpkin, and are typically blended together to make the canned pumpkin that's sold in retail outlets.

McGraw is quite methodic about growing his giant vegetables and pays particular attention to the great amount of space they require. "The way these vines spread," he says, "you need at least a 500-square-foot patch." At Cambridge, pumpkin plots are located in sandy soil on the border of a wooded area unsuitable for other kinds of research cultivation.

McGraw starts three seeds in a 16-inch peat pot in the greenhouse in mid-April, thinning them to one plant once a dominant vine appears. When the vine is ready for transplanting at the end of May or the beginning of June, it's already six feet long and flowering. In a well-manured plot, McGraw inserts the entire pot, allowing the vine at least 40 feet of growing space. When the first vegetable appears, he trims off the other flowers so the plant channels all nutrients to its lone occupant.

The vine constantly sends out runners, which take root and likewise draw nutrition and moisture for the vegetable. In a growth spurt that lasts two or three weeks, the vine will spread up to four feet a day, feeding the voracious squash, which can gain a pound an hour. During the period, McGraw treats it to liquid fertilizer and about 400 gallons of water a week.

"The growth is like fast-action photography," he says. "They gain so rapidly that the vines, which are anchored and sometimes become entangled, have to be moved or they'll rip them right out of the ground. And if there's any weakness in the skin, like a spot where a groundhog has chewed, they grow so fast that they'll blow themselves apart."

Ideal growing conditions consist of high heat and lots of water during the growth spurt period. Although the area enjoyed a hot summer, however, it was also very dry, which thwarted the efforts of most giant vegetable growers. The severity was demonstrated by the cancellation of the Ontario weigh-in segment of the 1987 international "giant pumpkin" competition. (Ontario hopefuls took their entries to New York state.)

But McGraw isn't discouraged with his results. He says his squash would have gained another 100 or 150 pounds if moisture would have accompanied the heat wave. "The day's coming when we'll grow a 400 or 500 pounder at Cambridge," he promises. "It's just a matter of time."

Meanwhile, students at Breslau Public School, where his daughters, Carrie, 12, and Maggie, 9, attend, are enjoying carving a giant jack-o-lantern out of this year's best effort. ○

Senate summary

Continued from page 1.

programs be realized; increase the fraction of research degree graduate enrolment in doctoral programs; and increase the number of graduate students holding scholarships.

Senate also directed the Research Board to investigate ways that the University can further enhance its position relative to other Canadian universities in its research areas. The board will report its findings, including the implications for institutional resource allocation, to Senate by April of next year.

The Senate Committee on Educational Development (SCED) will also conduct a review to find out how well the University's current programs are meeting the needs of new entering students and helping them move towards self-responsibility and independent learning. SCED will recommend any action required in a report to Senate next June.

Senate has also asked that, as part of the budget presentation process beginning 1987/88, the president report to it on any major changes in University staffing patterns.

In other business Senate:

- Received a report of the executive committee on academic misconduct for information. During the spring, fall and winter semesters of 1986/87, 28 cases of academic misconduct were referred to the dean of the student's college (compared to 16 the previous year). Of these, 25 cases were judged guilty, (14 the previous year) and three were judged not guilty (two the previous year). Three students received an official warning, 16 lost marks, and six were debarred.

  One case, with a loss-of-marks penalty, was appealed to the Senate Committee on Student Petitions, which reversed the guilty find. Three cases with debarment penalties were also appealed to the committee. It upheld the college in one case and reduced the length of the debarment from one year to two semesters in two cases.
- Approved changes to membership on the Committee on Student Petitions and the Board of Undergraduate Studies, and received for information reports on college representation on Senate committees and changes to Senate membership for 1987/88.
- Received for information a report of the Board of Graduate Studies on additions to provisional and associated graduate faculty.

  They are:

  Provisional: Eli Squires, Animal and Poultry Science; Wayne Howard, Agricultural Economics and Business; and Glen Van De Kraak and John Fryxell, Zoology.

  Associated: Nancy Dengler, University of Toronto/Botany; Kay Obendorf, Cornell University/Consumer Studies; Brian Colman, York University/Horticultural Science; John Sanders, Potash and Phosphate Institute of Canada/Land Resource Science; Gordon Donaldson, professor emeritus and professor of scottish history and paleography, and historiographer to the Queen/History; and Robert Harney, University of Toronto/History.

  Dean of Graduate Studies Doug Ormrod noted that Donaldson and Harney were appointed associated graduate faculty, without term, and he encouraged other departments to consider appointing distinguished scholars without term.
- Received for information the Research Board's annual report on research funding.
- Received for information a report from the Senate Committee on Student Petitions on the disposition of student petitions 1977/78 to 1986/87.
- Approved four new awards. They are:

  Bob McCann Memorial Scholarship — an annual undergraduate award of $500, tenable with other Senate awards, to a student commencing semester eight in B.Sc. honors wildlife biology or honors fisheries biology. The scholarship will be awarded to the student who has completed the seventh semester level with the highest cumulative average in core courses in the wildlife or fisheries program. No application is necessary. The selection committee is the CBS awards committee on the recommendation of the Department of Zoology. The donor is the OAC Class of 1966, fisheries and wildlife biology;

  Virginia McEwen Memorial Scholarship — two annual undergraduate awards of $500, tenable with other Senate awards, to outstanding students in the B.A.Sc. co-op program. The first scholarship is awarded on admission to a student's first co-op work semester on the basis of academic performance in all courses completed prior to the first co-op work semester. The second scholarship is awarded to a student entering the second co-op work semester based on an outstanding rating both on the student's work report and the supervisor's report on the student's performance, as well as on the basis of academic performance in all courses completed prior to the second co-op work semester. No application is necessary. The selection committee is the B.A.Sc awards subcommittee. The donor is OAC Dean Freeman McEwen, family and friends;

  Wellington Laboratories Prize in Environmental Chemistry — an annual undergraduate award of $250, tenable with other Senate awards, to the student with the highest standing in course 19-336 or 94-336, environmental chemistry and toxicology, in the preceding calendar year and who is registered as an undergraduate student at the time the winner is selected. No application is necessary. The selection committee is the CPS awards committee on recommendation of the Department of Chemistry and Biochemistry. The donor is Wellington Environmental Consultants Inc.

  Canada Packers Inc. Food Service Operations Award — an annual undergraduate award of $750, tenable with other Senate awards, to a student who has completed Semester 5 of the B.Comm. program, has attained at least an overall 'B' average and has demonstrated leadership in extracurricular activities within or outside of the School of Hotel and Food Administration. Application is to the assistant registrar, awards, by Jan. 31. The selection committee is the B.Comm. awards subcommittee and representatives of Canada Packers Inc. The donor is Canada Packers Inc.

  Senate also received a report on the 185th meeting of the Council of Ontario Universities (COU) held Oct. 2 at Trent University. Harry Arthurs, president of York University, is chair for 1987/88; George Pederson, president of the University of Western Ontario, is vice-chair. O

Pension fund 'sound'

University of Guelph employees have no reason to be concerned about last week's stock market crash affecting their pension fund investments, says Dale Lockie, Secretariat's Office, secretary of the pension and benefits committee of Board of Governors.

After last week's market dip, Lockie received a number of phone calls from employees asking if the pension plan would be affected, but he assured them all that the plan remains sound.

The current market value of the plan has decreased, he says, but that will not seriously affect the actuarial valuation of the plan. The plan's assets — cash, bonds and stocks — are calculated each year on a five-year rolling average to take into account fluctuations in the stock market; this year's downward blip will be smoothed out when it's averaged into the assets of the past four years.

"The University's pension fund participated fully in the recent five-year bull market," says Lockie. "The fund was in a surplus position before 'Black Monday' and still is."

The state of the stock market should not concern employees, he says, because the University has a defined benefits plan — that means it's totally responsible for providing a pension based on salary and length of service regardless of what shape the pension fund is in. O

Briefly

Nutrition series

The Guelph Community Health Centre is offering a three-part series on nutrition in November at the Medical Centre, 73 Delhi St., Guelph. "Canada's Food Guide: 1950s to the 1980s" and "Vegetarianism: A Scientific View" will be discussed Nov. 4. On Nov. 11, topics will be "The Natural Hygenic Diet and Fasting: 'Fit for Life'" and "Nutritional Medicine and Therapies." On Nov. 18 there will be a nutrition fair and workshops on health and nutrition, cooking for children naturally, healthy, quick meals, edible wild foods, and macrobiotics. All events, from 7 p.m. to 9:30 p.m., are free, but donations to cover costs would be appreciated. For more information, call 763-3183 or 823-2587.

Counselling available

The marriage and family therapy service of the Department of Family Studies offers professional counselling on marital, family, sexual and relationship issues. For more information or an appointment, call Ext. 6335.

Eating disorders session

The Counselling and Student Resource Centre is sponsoring an information session on anorexia nervosa and bulimia Nov. 2 from 5:15 to 7 p.m. in Room 103, University Centre. Psychoeducational principles, predisposing factors and medical complications are a few of the areas that will be discussed. The session is open to students, faculty and staff interested in learning more about eating disorders. For more information, call Anne Billings at Ext. 3245.

Citizenship classes

The Guelph and District Multicultural Centre Inc. is offering citizenship development classes to people who are applying for Canadian citizenship. Classes are Nov. 10, 17 and 24, 7:30 to 9:30 p.m. at the centre, 128 Woolwich St., Suite 203. Topics will include history, geography, government of Canada, and rights and privileges of a Canadian citizen. There is a $10 registration fee; pre-registration is required. For more details, call 836-2222.

The centre is also holding an information evening on family and related issues in Canadian Society with guest speaker Pushpa Seevaratnam Oct. 28 at 7 p.m., at the centre. A social worker, Seevaratnam will speak on the multiple roles of women in Canadian society and the changing role of women in the home, workplace and other activities. Everyone is welcome to this free event.

What's new in biology?

The College of Biological Science's Thursday seminar series focusing on what's new in biological research continues Oct. 29 at 1 p.m. in Room 102 of the J.D. MacLachlan building with the topics "Kinetics to Clones: Membrane Enzymology in *Escherichia Coli*. Guest speaker is Prof. Janet Wood, Chemistry and Biochemistry.

Nov. 5, Dr. Peter Hochachka, department of zoology, University of British Columbia, will discuss "Microcomputer-Assisted Metabolic Studies of Voluntary Diving in Antarctic Seals."

CD-ROM instruction

In May of this year the Library published its catalogue on Compact Disk (CD-ROM) as a back-up and supplemental access method to the online catalogue. Because of the success of classes offered earlier in the semester, and also the number of requests to continue the offering, the Library has planned 11 additional 30-minute CD-ROM instructional sessions in the next five weeks. These will take place Nov. 3, 10, 17, 24 and Dec. 1 at 10:10 a.m., and Nov. 5, 12, 19, 26 and Dec. 3 at 3:10 p.m. Meet at the Library information desk. For more details, call Ext. 3153.

Protect your back

There is still space in the Occupational Health Department's preventive back exercise program. Call Jean Wessman, Medical Services, Ext. 2133.

Have a HAFA lunch

The HAFA Restaurant is open Wednesday to Friday from 11:45 to 1 p.m. throughout the fall. Both buffet service and dining room service are available. For dining room reservations, call Ext. 8116.

Continued on page 7.

At Guelph

is published by the University of Guelph for the University community and its friends every Wednesday except during December, July and August, when a reduced schedule applies. AT GUELPH is guided by an editorial policy approved by the president of the University.

Views and opinions contained herein do not necessarily reflect official University policy. Letters to the editor, opinions, news items and other submissions are welcome. Deadline is seven days before date of issue unless otherwise specified. Stories may be reprinted with acknowledgment of source.

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Graduate News

The final oral examination of Peter James O'Brien, Pathology, (veterinary science), a candidate for the doctor of veterinary science degree, is Nov. 3 at 2 p.m. in Room 2635 of the OVC main building. The paper is "Compensatory Adaptation of Myocardial Membranes to Chronic Metabolic Overload." His supervisor is Dr. Tim Lumsden.

The final oral exam of Brian Robert Broxup, Pathology, a candidate for the doctor of veterinary science degree is Nov. 6, at 2 p.m. in Room 2635 of the OVC main building. The paper is "Morphometric Evaluation of Hepatocellular Proliferative Lesions in the Rat Liver." His supervisor is Dr. Ted Valli.

The final oral exam of Howard A. Covant, Biomedical Sciences, a candidate for the doctor of philosophy degree, is Nov. 5 at 9 a.m. in Room 2511, Population Medicine. The thesis is "An Investigation on the Site of Retinoid Action in the Induction of Glands from the Hamster Cheek Pouch." His supervisors are Drs. Margaret Hardy Fallding and Shigeto Yamashiro.

Interested members of the University community are invited to attend. O

Job opportunities

As of *At Guelph* deadline Oct. 23, 1987, the following opportunities were available:

Food Services, part-time employment opportunities: cashier, porter, cafeteria help, bartender, waitstaff, doorperson. Applications available at the following locations: employment services, Department of Food Services or any food service location.

Research Technician, Population Medicine; grant position. Hiring rate: $414.48 to $479.33 per week.

Cook, Department of Food Services; temporary full-time. Start rate: $10.05 per hour; job rate: $12.21 per hour.

Secretary I, Clinical Studies. Salary range: $276.64 minimum; $320.83 job rate (level 5); $385.08 maximum.

Laboratory Technician, Biomedical Sciences. Salary range: $303.42 minimum; $350.66 job rate (level 5); $436.76 maximum.

The following positions were available to on-campus employees only:

Data Report Clerk, Alumni Affairs and Development.

Secretary II, Animal and Poultry Science. Salary range: $303.42 minimum; $350.66 job rate (level 5); $436.76 maximum.

Secretary I, Veterinary Teaching Hospital. Salary range: $276.64 minimum; $320.83 job rate (level 5); $385.08 maximum.

Technician, Horticultural Science. Salary range: $481.04 minimum; $557.19 job rate (level 5); $692.11 maximum.

General Cafeteria Helper, Food Services. Start rate: $7.39 per hour; job rate: $8.99 per hour.

Custodian 3, Housekeeping Department. Job rate: $10.75 per hour; probation rate: $ .20 per hour lower than job rate.

Manager, Family Housing, Department of Residences. Salary range: $24,499 minimum; $30,624 midpoint; $36,749 maximum.

Statement Reconciliation Clerk, Accounts Payable. Salary range: $363.19 minimum; $419.51 job rate (level 5); $517.87 maximum. O

For a gourmet coffee break

"Just Desserts" opened Oct. 5 in Centre Six in the University Centre, offering 10 varieties of gourmet muffins and five kinds of cookies baked daily on site, as well as coffee, fruit drinks and ice cream/yogurt/crushed fruit combinatinns. Customers can also arrange for take-home bulk orders.

Jeff Davidson, unit manager, Food Services, says "Just Desserts" is doing well, with the largest customer demand for coffee break items. Many people bring their own lunch and like to supplement it with dessert and gourmet coffee. The new section has also responded to requests for take-home products and it has eased some of the congestion at the other outlets in Centre Six, he says.

"Just Desserts" is open from 7:30 a.m. to 4 p.m. Monday to Friday. A discount is offered on bulk orders, which can be placed at the shop between 9 and ll a.m. Orders for 60-per-cent whole wheat, white and dark rye bread, baked daily in Creelman Hall, can also be placed at "Just Desserts."

Davidson says the shop may at a later date expand the products now offered to include tarts, turnovers and pastries. O

Young computer scientists invited to enter contest

Ontario's young computer scientists have the opportunity to compare their skills and earn up to $2,500 in prize money in the third annual software development contest sponsored by the Department of Computing and Information Science.

Open to all high school students with an average of at least 75 per cent, the contest encourages students to develop a computer program that supplements their high school curriculum or is of personal interest. Entrants must work individually to identify a problem and develop a software program to solve it.

First prize in the senior category (Grade 12 and up) is $1,000 in cash and a $1,500 fellowship to the University. Second prize is a $750 fellowship and $500 in cash, third prize a $200 fellowship and $ t00 in cash. Winning students and their schools will also receive commemorative trophies. A junior category has been added this year, with winners receiving plaques and cash awards of $300, $200 or $100.

In its first two years, the contest has attracted the attention of students across the province and the support of the computing industry as sponsors, says Prof. Allan Dyer. He and other faculty in CIS initiated the software development contest to stimulate interest in computing outside the classroom and to give Ontario's high schools the opportunity to compare the quality of their students.

Last year's winners represented Cedarbrae Collegiate Institute in Scarborough, Timmins High and Vocational School, Ecole Secondaire Franco-Cite in Sturgeon Falls and Colonel By Secondary School in Gloucester.

Entries for the 1988 competition will be received until Feb. 1. For more information, call Dyer at Ext. 2711. O

Campus Canada

University of Toronto psychology professor Barney Gilmore has been chosen Canadian. professor of the year by the U.S. Council for the Advancement and Support of Education.

The **Technical University of Nova Scotia** has begun a six-year program of human resource development and technology transfer in agricultural engineering in Nigeria. The program is being supported by a $1.3-million grant from the Canadian International Development Agency.

The **University of Manitoba** has received a $339,000 research grant to study "blackleg," a major disease threatening Canada's canola crops. The university's faculty of agriculture will collaborate with a Winnipeg seed company in conducting the research, aimed at developing disease-resistant canola strains.

Mount Saint Vincent University alumni are being challenged by Halifax businessman Garnet Brown to donate money to the university's annual fund-raising drive. Brown has established a program to match alumni gifts, with special bonuses for first-time donors.

The **University of British Columbia** has received a $250,000 donation for research on a blood test for cancer screening. The donation comes from UBC board chair William Sauder and his wife. O

Prof. Tom Funk, Agricultural Economics and Business, right, receives the 1987 Stewart Lane Commemorative Award from retired professor Stewart Lane prior to the annual J.S. McLean Memorial Lecture. The award is in recognition of the most outstanding contribution by a faculty member of Agricultural Economics to the development and communication of information of practical value to the agricultural community.

John Majorossy, Photographic Services

Her job is the pests

"This must be one of the busiest telephones on campus," says Marilyn Dykstra, new director of the University's Pest Diagnostic and Advisory Clinic. The clinic has handled close tn 300 telephone inquiries and identified more than 1,000 specimens just since Dykstra took over the position in July.

She replaces Rick Wukasch, director of the clinic since it opened nine years ago, who has left to attend the Ontario Theological Seminary in Toronto.

A 1978 graduate of OAC, Dykstra earned her master's degree at the University of Saskatchewan and worked six years in the regional crop laboratory at the Alberta Special Crop and Horticultural Research Centre in Brooks, Alta.

Dykstra says the Guelph pest clinic has challenged her with a greater variety of insects and disease problems than those experienced in Western Canada because southern Ontario's more moderate climate allows the cultivation of many more agricultural crops and ornamentals.

Although funded by the Ontario Ministry of Agriculture and Food, the clinic is located in the basement of Graham Hall, within the facilities of the Department of Environmental Biology. When OMAF completes its move to Guelph, says Dykstra, the clinic will be housed in a new building along with the ministry's pesticide residue lab.

The pest clinic is working at maximum capacity, with more than 30,000 inquiries to its credit since it opened, says Dykstra. It receives everything from live specimens of earwigs, spiders and ceropia moth larvae to diseased ornamentals and vegetable and fruit crops. It also receives weeds and poisonous mushrooms, as well as inquiries about rats, bats and squirrels.

Most specimens come from home gardeners, she says, but the clinic has a growing clientele among commercial growers, landscape businesses and other industries.

The charge for a routine diagnosis is $3, with additional charges for specimens that require more extensive investigation. Most people just want to know what it is and how to get rid of it, says Dykstra. But the clinic also provides an educational service — giving tips on plant care, identifying those "pests" that don't really damage a plant and making recommendations for biological or chemical control of insects and diseases that do cause economic damage.

Through its service and extension functions, the pest clinic has accumulated a reference collection of more than 10,000 slides and specimens, as well as a list of resource people across campus. O

Need a speaker?

The National Research Council has set up a speakers' bureau of participants willing to attend meetings or conferences across Canada to discuss science and technology-related issues. Speakers are prepared to discuss general issues such as technology transfer and the future of research and development spending, as well as specific areas such as biotechnology and artificial intelligence. For more information, contact John Wildgust, Executive Manager, Public Relations and Information Services, NRC, Montreal Road, Building M58, Ottawa K1A 0R6, 613-993-3106.

Investing In Our Future

Canada's universities are a window on the world. They're about people and ideas, research and development, next door and around the world. They're a vital part of our community, making our best resource - our people - even better.

NATIONAL UNIVERSITIES' WEEK
october 24 to november 1

Courses

Workshop on living with the elderly

We all get older, but too many of us help the aging process along by assuming that elderly bodies are useless, says Prof. Susan Pfeiffer, Human Biology.

She rejects that mental image and suggests that something as simple as a daily walk around the block can help us to maintain control of both our physical and mental abilities.

Regardless of chronological age, an obese, inactive body will show symptoms similar to those found in someone with a prolonged life span, says Pfeiffer. A decrease in physical strength and stamina, poor circulation, high blood pressure and low glucose tolerance are just a few of the symptoms that can be brought on not just by aging but also by the lack of physical activity at any age. Reaction time, memory, social ability and some aspects of intelligence are other functions that can be affected positively by exercise and improved physical conditioning, she says.

Pfeiffer's advice is simple: "Use it or lose it." She recommends walking as the best overall exercise for most older people, but if you're hesitant, ask your doctor to prescribe a light exercise program that incorporates an aerobic activity. Swinging your arms in a nice brisk walk instead of watching TV can help to prevent stiffened shoulders that make it difficult to do simple chores like fixing your hair, she says.

It can also build confidence and help you stay in control of your body and your lifestyle. If you know you can walk around the block without difficulty, you won't hesitate to catch the bus to go downtown shopping or to a show.

Physical fitness, coupled with good nutrition, can also eliminate many of the non-prescription drugs that leave older people with the idea that they are ill, says Pfeiffer.

"There is solid evidence that moderate exercise can be at least as effective as calcium supplements in the prevention of osteoporosis." Why take pills when you can enjoy greater benefits from exercise and have more fun doing it, she says. "And it's free."

Pfeiffer will address these and other aspects of physical aging in a one-day workshop, "Living with the Elderly," to be offered Nov. 7 by the Division of Continuing Education.

The program will also include a session on family caregiving with psychology professor Benjamin Gottlieb and advice on where to go for community resources when family caregivers are not enough. For more information, call Continuing Education at Ext. 3956.

The role of grandparents

What can grandma do to ease the pain and guilt her grandchildren feel when their parents divorce? Does grandpa have the right to visit his grandchildren even though their mother has bitter feelings towards her ex-husband's family?

These are some of the issues that will be discussed in a Continuing Education workshop on grandparenting Nov. 14 on campus.

Recognizing that grandparents and grandchildren need each other, the course will examine the contributions that grandparents, the family and the community can provide one another. Topics will include parents and grandparents working as partners, sex role identification, the community connection and granny flats, and volunteer grandparenting.

Course instructors Prof. Andor Tari, Family Studies, and Debbie Stone-Zukowski will emphasize redefining the role of the older person in the community.

For more information or to register for the course , call Continuing Education, Ext. 3956.

Buying rural property

If you're a city dweller with dreams of living in the country, the Division of Continuing Education can help you "test drive it before you buy."

The opportunity to buy a small farm for the price of a city lot is attractive, and the rural experience of "growing your own" can be rewarding — if you know what you're buying, say the five experts who will serve as instructors for the one-day course "Buying Rural Property" Nov. 21.

Undeveloped rural acreages are faced with bylaws, zoning regulations, drainage problems and tax payments that are equally as frustrating as those in high-priced, crowded city suburbs, says Paul Grant, a lawyer in the rural Mount Forest area who will provide the legal perspective for the course. Grant advises participants to look into laws such as the Drainage Act, Line Fences Act and the Environmental Protection Act to ensure that their intended use for the land will satisfy government regulations.

Derek Graham of Elora, who has 25 years experience in surveying, says buyers should consult both a lawyer and a land surveyor to "find out what you're buying." A boundary line that is misplaced by only a few feet could reduce the amount of land you are buying, he says.

Prof. Pieter Groenvelt, Land Resource Science, will provide course participants with a working knowledge of soil types and uses. Cedar trees, ferns and a stream may attract you to a property only to disappoint you later if they prove unsuitable for your intended use.

The course will also call on the expertise of Larry Rosevear, a credited appraiser and manager of agricultural services for Deloitte, Haskins and Sells in London, and Ralph Winslade, a farm business adviser with the Ontario Ministry of Agriculture and Food. Rosevear will explain how to determine a fair value for rural land; Winslade will encourage prospective buyers to evaluate its investment potential.

Although an appraisal is based on market trends, the asking price of other properties in the area, distance from major cities and highways, soil type and drainage, water supply and buildings, Winslade suggests the investment potential of a property should be based on rent values.

"Buying Rural Property" has become one of the most popular courses in Continuing Education's Saturday series for part-time and beginning farmers. Other offerings in the fall series will include courses on beekeeping Nov. 14 and 21, raising rabbits Nov. 14 and fish farming Nov. 28. O

New resource books

The Development Education Program has received the following books for its resource centre: *Development Administration and U.S. Foreign Aid Policy*, by Dennis Rondinelli; *For Richer, For Poorer: An Oxfam Report on Western Connections with World Hunger*, by John Clark, and *The Field Director's Handbook: An Oxfam Manual for Development Workers*. The resource centre is located in Fielding House, 15 University Ave. E., Ext. 6915.

The Arboretum took on a new look in two days last week as 70 silver maples, donated by the Grounds Department, were planted by a Big John tree spade, above, along what is known on campus as "the racetrack." The trees, about 10 years old and grown in campus nurseries, will form a shaded pathway entrance to The Arboretum, says its director, Prof. Keith Ronald.

John Majorossy, Photographic Services.

Animal care course for graduate students

Board of Graduate Studies has decided that all graduate students who will use vertebrate animals in their research or who will be teaching assistants in courses involving vertebrate animals must take a short course organized by the Animal Care Committee.

The first course, which will be held Jan. 5, 1988, at 8:30 a.m. in Rnom 105 of the MacNaughton building, will cover the following topics: control and regulation of animal research, the *Animals for Research Act* philosophical considerations, the animal welfare movement, animal models and alternatives, factors affecting experimental data, ethical and practical considerations in euthanasia, and zoonoses and biohazards.

Speakers will be drawn from several University departments,the Canadian Council on Animal Care and the Ontario Ministry of Agriculture and Food. Faculty and staff are welcome as observers. For more details, call Prof. Doug Ormrod, dean of Graduate Studies, Ext. 2441. O

A taste of things to come

The University recently hosted a conference on "The Role of the Computer in the Teaching of Agriculture and Veterinary Medicine," sponsored by OAC, OVC, the Association of Faculties of Agriculture in Canada and IBM Canada Ltd.

The two-day event attracted 120 registrants and speakers from 25 different institutions, including two government ministries. Participants came from as far away as Irbid, Jordan, as well as from across Canada and the United States.

The present and likely future academic uses of computers were explored during the conference. Following the opening address by Dr. Janet Wardlaw, now retired associate vice-president, academic, Prof. Thom Herrmann, Office for Educational Practice, presented the case for embracing existing technology and pursuing ongoing developments in computerized teaching.

Daryl Kraft of the University of Manitoba, Ray Peterson of the University of British Columbia, John Stackhouse of the Nova Scotia Agricultural College and Randy Ross of Ridgetown College gave the provincial perspective by detailing the activities in various teaching institutions across Canada.

The U.S. point of view on the use of computers in teaching was explored by Jim Kendrick of the University of Nebraska, Norman Scott, dean of research at Cornell University, and Keith Wharton of the University of Minnesota.

In addition to the formal presentations, an afternoon of demonstrations provided an opportunity to exchange ideas,and test out the latest hardware and software technology. The VITAL computer-aided learning software system was featured, as were the agricultural and veterinary hardware/software products in daily use on campus.

The conference, which was chaired by Prof. Wayne Pfeiffer, Agricultural Economics and Business, was voted a success by participants, says Tony Mackay, dean's office, OAC. There were calls for a follow-up event in 1988, together with invitations to OAC to participate in similar conferences being planned, he says.

The conference marked the formal conclusion of the IBM/OAC co-operative research project of the last three years. O

Basic facts about the importance of post-secondary education in Canada.

- There are 66 universities in Canada with a total of almost 500,000 full-time students and more than 30,000 faculty;
- There are 165 public community colleges in Canada with an enrolment of about 300,000 full-time students and 22,000 faculty;
- In addition, there are well over two million students in part-time learning and adult education activities in the colleges and universities;
- The total spent on post-secondary education in Canada in 1985 was about $9.5 billion, of which $1.5 billion was on research. Of the total expenditures, about $8 billion was provided by the federal, provincial and territorial governments;
- The number of public community colleges in Canada has grown from just a few in 1960 to 165 today. In the same period, although there was only a small increase in the number of universities, there was a great expansion in their size to accommodate the rapid growth in the student population;
- The full-time student population in universities and colleges rose from just over 150,000 in 1960 to about 800,000 in 1985;
- Over a 20-year period from 1965 to 1985, the number of faculty members in universities more than doubled from 15,000 to more than 30,000. In the colleges, there was a four-fold increase from just over 5,000 to about 22,000;
- Total expenditures on post-secondary education rose from 0.9 per cent of GNP in 1960 (more than $300 million) to about 2.3 per cent in 1969 (about $2 billion), and then fell back to 2 per cent by 1985 (about $9.5 billion).

(Reprinted from the program of the National Forum on Post-Secondary Education, held Oct. 25 to 28 in Saskatoon.) O

Coming events

WEDNESDAY, Oct. 28

National Universities Week - Bossin's Medicine Nuclear Show, noon, UC courtyard; Reading from *The Diaries of L.M. Montgomery, Volume 2*, Barbara Conolly, 12:10 p.m., UC 103.
Biochemistry Seminar - "Aspartyl proteinases: Their Role in Food Science," Rick Yada, 12:10 p.m., MacNaughton 222.
Worship - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5; Great Commission Students fellowship meeting, 7 p.m., FACS 17B.
Botany Seminar - "Interactions of *Agrobacterium tumefaciens* with Soybean Explants in Tissue Culture," Dalia Kudiska, 3 p.m., Botany/Genetics/Zoology 117.
Cycling Club - Hespeler (novice ride), 25 miles, 5 p.m., UC south doors.
Skills Training Series - "Canada World Youth: An Introduction to the Organization's Expectations for Hiring Group Co-ordinators," 7 p.m., UC 332, $2.50.

THURSDAY, OCT. 29

Pathology Seminar - "Regulation of Growth of Normal, Preneoplastic and Neoplastic Hepatocytes," Gord Wollenberg, 11:10 a.m., Pathology 220.
Society for International Development - "Communications in Rural Development," Marie Protz, noon, MacKinnon 132.
Worship - Meet and Eat, noon, UC 335; Ecumenical Campus Ministry, 5 p.m., Mature Students Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Social Evening, Roman Catholic Ministry, 6 to 9 p.m., UC 335.
Concert - Ezio Mariani de Amicis, violin, 12:10 and 1:10 p.m., MacKinnon 107, free.
Biology Seminar - "Kinetics to Clones: Membrane Enzymology in *Escherichia coli*," Janet Wood, 1 p.m., J.D. MacLachlan 102.
Apiculture Club - "The History of Apiculture at the University of Guelph," Gord Townsend, 5:10 p.m., Graham Hall 200.
Volleyball - Brock at Guelph, men's and women's, 7:47 p.m., Athletics Centre.

FRIDAY, Oct. 30

Schedule of Dates - Last day for applications to graduate at winter convocation.
Worship - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Ecumenical Holy Communion, 1:10 p.m., Chapel, UC Level 5.
Music - Canadian Opera Company Ensemble, noon, Peter Clark Hall, free.
Current Issues in Agriculture - "Plant-Derived Pharmaceuticals," 3 p.m., Crop Science 121.
Volleyball - Waterloo at Guelph, men's, 7:47 p.m., Athletics Centre.

SATURDAY, Oct. 31

Children's Concert - Sandra Beech, 1 and 3 p.m., War Mem Hall, $6.50.

SUNDAY, Nov. 1

Cycling Club - Maryhill (Novice Ride), 25 miles, 10 a.m., UC south doors.
Worship - Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry (Anglican, Presbyterian, United, Lutheran), 10:30 a.m., Chapel, UC Level 5.
Arboretum - Sunday Afternoon Walk, "Food For Thought," 2 p.m., J.C. Taylor Nature Centre.

MONDAY, Nov. 2

Schedule of Dates - Fortieth Class Day, DVM program.
Ethics in Development - "Development Under Repressive Regimes," 12:10 p.m., UC 103.
Worship - Catholic Mass, 5:10 p.m., Chapel, UC level 5.
Information Session, Eating Disorders, sponsored by CSRC, 5:15 to 7 p.m., UC 103.

TUESDAY, Nov. 3

Worship - Catholic Mass, 12:10 p.m., Chapel, UC Level 5; Christian Issues and Apologetics, noon, UC 103.
Our World - "If You Love this Planet," 12:10 p.m., UC 442.
Engineering Seminar - "Extension in Agricultural Engineering - Model Setup in Nigeria," Yohanna Yiljep, 3:10 p.m., Thornbrough 110.
Physics Colloquium - Guelph-Waterloo Program for Graduate Work in Physics seminar, 4 p.m. MacNaughton 113.

WEDNESDAY, Nov. 4

Worship - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5; Great Commission Students fellowship meeting, 7 p.m., FACS 17B.
Biochemistry Seminar - "Non-Erythroid Spectrin Associated with Microtubules in Neural Tissues," 12:10 p.m., MacNaughton 222.
Botany Seminar - "Molecular and Genetic Analysis of Purine Metabolism in *Arabidopsis thaliana*," Barbara Moffatt, 3 p.m., Botany/Genetics/Zoology 117.
Cycling Club - Downey Road (novice ride), 17 miles, 5 p.m., UC south doors.

THURSDAY, Nov. 5

Schedule of Dates - Fortieth Class Day.
Pathology Seminar - "Sudden Death Syndrome in Broiler Chickens," 11:10 a.m., Pathology 220.
Concert - Mark Eisenman Trio, 12:10 and 1:10 p.m., MacKinnon 107, free.
Worship - Social Evening, Ecumenical Campus Ministry, 5 p.m., Mature Students Lounge, UC Level 5; Explorations in Meditative Prayer, 5:10 p.m., Chapel, UC Level 5; Social Evening, Roman Catholic Ministry, 6 to 9 p.m., UC 335.

FRIDAY, Nov. 6

Schedule of Dates - Last day for preregistration for winter semester 1988 for in-course students.
Worship - Roman Catholic Mass, 8:10 a.m., Chapel, UC Level 5; Ecumenical Holy Communion, 1:10 p.m., Chapel.
Dinner Theatre - Theatre in the Trees, "Suitehearts," 6 p.m., The Arboretum, $25.50.

SATURDAY, Nov. 7

The Guelph Field Naturalist - "Autumn in the Arboretum," Alan Watson, 2 p.m. J.C. Taylor Nature Centre.
College.
Dinner Theatre - Theatre in the Trees, "Suitehearts," 6 p.m., The Arboretum, $25.50.

SUNDAY, Nov. 8

Cycling Club - Elora Gorge, 45 miles 10 a.m., UC south doors.
Worship - Roman Catholic Mass, 10:10 a.m., Peter Clark Hall; Ecumenical Campus Ministry (Anglican, Presbyterian, United, Lutheran), 10:30 a.m., Chapel, UC Level 5.
Arboretum - Sunday Afternoon Walk, 2 p.m., J.C. Taylor Nature Centre.

MONDAY, Nov. 9

Instructional Development Workshop - Demonstration of Madd, noon, Blackwood Hall 211.
Worship - Catholic Mass, 5:10 p.m., Chapel, UC level 5.

TUESDAY, Nov. 10

Worship - Christian Issues and Apologetics, noon, UC 103; Roman Catholic Mass, 12:10 p.m., Chapel, UC Level 5 Bible Study, 7 p.m., UC 332; Inquiry into Catholicism, 4:10 p.m., Room 335, UC; Faithfully Curious, 5 p.m., UC 335.
Our World - "Creationism vs Evolution: The Debate Continues," Michael Ruse, 12:10 p.m., UC 442.
Engineering Seminar - "Finite Element Prediction of Thermal Gradient in Cylindrical Concrete Water Reservoirs in Southern Ontario," Samuel Tang, 3:10 p.m., Thornbrough 110.
Physics Colloquium - "Solid-State Physics," Henry Glyde, 4 p.m., MacNaughton 113.

WEDNESDAY, Nov. 11

Biochemistry Seminar - "Characterization of Nitroarene Adducts in DNA Using a Post-Labelling Technique," 12:10 p.m., MacNaughton 222.
Worship - Ecumenical Holy Communion, 12:10 p.m., Chapel, UC Level 5; Great Commission Students Fellowship Meeting, 7 p.m., FACS 17B.
Concert - Mike Woods, folk, noon, UC courtyard.
Botany Seminar - "Amino Acid Metabolism: - Amides and Nitrogen Cycling," 3 p.m., Botany/Genetics/Zoology 117.
Cycling Club - Rockwood, 20 miles, 5 p.m., UC south doors.
Speaker Series - "Preservation and Protection of Wildlife by Direct Confrontation," Paul Watson, 7:30 p.m., War Mem Hall, $6.50 general, $5.50 students.

Personals

For Sale: Fridge and stove, 821-5502 after 5 p.m. La-Z-Boy chair, chocolate brown; Electronic II typewriter; light brown kitchen nook, all items less than a year old, Alexandra, Ext. 6663 or 836-9407 after 4:30 p.m. Bike carrier for child, children's skates size 12 and 13, ladies' skates size 9, men's down-filled jacket size medium, men's down-filled ski suit size medium, Toyota car mats, Melitta coffee maker, 822-3129. Five-piece forest green sectional sofa, 763-0550 after 5:30 p.m. "Laser" sailboat, includes two sets of sail and free storage this winter, 823-8587 after 10 p.m. Duncan Phyfe table and three lyre back chairs, Ext. 3065 or 824-5878 after 5 p.m.

Available: Typing, 821-5502 after 5 p.m.

For Rent: Garage in Waterloo/Edinburgh area, 836-6075.

"Personals" is a free service offered by At Guelph *for staff, faculty and students at the University. All items must be typed, double spaced, and submitted to* At Guelph *one week before publication.*

Briefly

Continued from page 2.

Autumn Day a success

The Arboretum had a full house and excellent music at the 10th annual Autumn Day Oct. 18, says director Keith Ronald. The day included a concert by Windwood, Keith Girard, flute, and Nicole Girard, marimaba, and a tour of the nature trails. The day was sponsored jointly by The Arboretum and the Department of Music.

Volunteers needed

The volunteer committee of the Macdonald Stewart Art Centre needs volunteers who can spare a few hours each month. If you are interested in working in hospitality, the gallery or in the gallery shop, contact Lish Dimack at 822-2749.

Suzuki looks at 'things'

David Suzuki, host of the CBC television show, "The Nature of Things," will speak, answer questions and autograph his new autobiography, *Metamorphosis: Stages in a Life*, Oct. 27 at 1:30 p.m. in War Memorial Hall. His visit is sponsored by the University Centre and the Central Student Association, in co-operation with *The Daily Mercury* and the Campus Co-op Bookstore.

Opera highlights

The Canadian Opera Company Ensemble will present a one-hour program with piano accompaniment Oct. 30 at noon in Peter Clark Hall, University Centre. The ensemble will give selections from "La Boehme," "The Elixir of Love," "Orpheus in the Underworld," "Thais," "Pearl Fishers," "Old Maid," "The Thief," "The Taming of the Shrew" and "Sail Away." There will also be a chance to meet and speak with the singers. Admission is free to this University Centre presentation.

Family night volleyball

The OUAA and OWIAA league seasons begin for men's and women's Gryphon volleyball teams Oct. 29 at 8 p.m., when they host the Brock Badgers. The teams invite students, faculty and staff to join them for the season opening matches. There is a $3 family rate, and door prizes will be awarded.

Youth Orchestra concert

The Guelph Youth Orchestra's fall concert, under the direction of Victor Sawa, will be Nov. 19 at 3 p.m., at The Arboretum. Tickets are available at the door; admission for students and seniors is free. For more information, call Prof. Richard Reid, History, Ext. 3202.

Russian duo performs

The Thursday noon-hour concert Oct. 29 will feature Yan Volodarsky, viola, and Yana Volodarsky, piano, both musicians-in-service to the governor-general of Canada. Program I at 12:10 p.m. will consist of "Sonata N 2 in D-Major" by Bach and "Bachianas Brasileiras N 4" by Villa-Lobos. Program II, at 1:10 p.m., will feature "Beau Soir," "La fille aux cheveux de lin," "Valse lente," and "Les Menestrels" by Debussy, and "Sonata in G-Major" by Ravel. The concerts, in Music Room 107 of the MacKinnon building, are free and open to all, and are sponsored by Concert Management of the Department of Music.

AUCC notice of award

The Development Education Program has received notice of an award from the Association of Universities and Colleges of Canada (AUCC). The scholarship, Kingdom of Belgium, French Community of Belgium Fellowships, 1988/1989, is for university study and research at the doctoral level focusing on the French community in Belgium. The scholarship is for one year and is not renewable. Applicants must have a good knowledge of French for university study or of French and English for research work. Applicants must be Canadian citizens who are graduates of a Canadian university or college that is a member or affiliated to a member of AUCC. Deadline for applications is Oct. 31. For more information, contact Susan James at Ext. 6915, or the awards division of AUCC at 151 Slater St. Ottawa K1P 5N1, 613-563-1236.

Positions available

Part-time positions with flexible hours are available with the Department of Food Services. Details at Drew Hall or call Ext. 2807.

Surplus sale

The Surplus Sales Department, Blackwood Hall, has these items available for departmental purchase only: SD#377 1-HDS terminal, model Concept 108; SD#397 one Volker Craig terminal and, SD#408 one Qume Spring 11/90 printer (tractor feed, print wheels and serial interface.) For more information and viewing, call Ext. 8139.

Ninjutsu events

The Ninjutsu Club will sponsor a seminar on Ninja philosophy and medicine with Sherman Lai, master of Ninjutsu, Nov. 2 in Room 119 of the MacKinnon building beginning at 8 p.m. All are welcome. A workshop on self-defence designed for teachers, parents and police officers will be given by the club Nov. 8 in the wrestling room of the Athletics Centre beginning at 1 p.m. There is no charge. Wear loose clothing.

ARC open house

ARC Industries, 8 Royal Rd. in Guelph, will hold an open house Nov. 14 from 9:30 a.m. to 4:30 p.m. It's the 13th annual open house for ARC, a vocational service program of the Guelph and District Association for the Mentally Retarded. There will be a sale of baked goods, stationery products, woodworking items and handcrafted gifts. For more information, call 824-7174.

College women to meet

The College Women's CLub will meet Nov. 3 at 8 p.m. at The Arboretum. Blair Stewart of the Framing Experience, Guelph, will show how to frame art and craft works. For transportation, call 836-9206 or 821-2696.

Halloween music

Juno-award winning singer Sandra Beech will present a children's concert Oct. 31 at 1 and 3 p.m. in War Memorial Hall. She will perform songs for Halloween as well as selections from her albums "Chickery Chick," "Inch by Inch," "Sunshine Songs" and "Sidewalk Shuffle." Tickets are $6 and are available at the University Centre box office.

At Guelph Supplement, Oct. 28, 1987

UNIVERSITY of GUELPH

White Paper on "Rural Resources" at the University of Guelph

"Where to from here?"

by the
Task Force on "Rural Resources"

WHITE PAPER ON "RURAL RESOURCES"

"Where to from here?"

Preamble - University initiatives in "rural resources"

The University's 1972 aims and objectives report recommends that the University "maintain a primary focus on a liberal undergraduate education of superior quality; in graduate studies, concentrate on areas in which it has special knowledge and expertise or can expect to make a unique contribution; in research, give particular attention to the problems man encounters and frequently himself creates in his continuing efforts to live in harmony with and as part of nature."

The task force is impressed that this aim is as relevant today as it was in 1972. This white paper is therefore part of a continuum that we hope will result in a plan of action. The need has never been more acute nor the time more appropriate.

The 1985 document Toward 2000: Challenges and Responses. Aims of the University of Guelph further stresses the importance of "rural resources" and its centrality of concern to the University by stating:

> Traditionally, Canada has depended upon its natural resources to sustain and nurture its economic growth and development. Although reliance on the resource base may be reduced through greater economic diversification, our natural resources will still constitute a major source of national wealth and represent a significant component of our future opportunities. The stewardship of our resources

has long been a feature of the University's educational programs, and this effort will have to be continued, especially in the areas of water, soils, land, plants and animals. New technologies will have to be enlisted for this purpose and, in some cases, steps will have to be devised to protect our resources from misapplications of technology. The well-being and effective management of the resources of the nation, indeed of the world, will have to remain a central concern.

In the opinion of the task force, our University's central concern with "rural resources" has not been fostered by a sufficiently strong vision and sense of mission. A clear, astutely implemented policy and the adequate provision of human, financial and physical resources consistent with the stated aims and objectives have not been forthcoming. Why is this? In the 1960s and '70s, when a fundamental re-evaluation was taking place in education, especially in the life science and natural resource fields, Guelph's response was inadequate. A centre for resources development was founded in the early '60s. In 1980 it was decided to recast this centre, and the University School of Rural Planning and Development was founded to serve the particular needs of people and resources in the rural environment. The school has been successful at the national and international levels and important work continues to be done. The school by itself, however, is simply not sufficient to accommodate the scope and magnitude of societal issues related to "rural resources." The resources of the school are inadequate to respond to these issues as a co-ordination and implementation agent, primarily because of the school's administrative framework within the University.

The University has several programs in "rural resources" that compete for limited resources; in the process, duplication and overlap have occurred. More serious is the lack of focus in the field of "rural resources," which has significant implications for our University if the 1972 and 1985 aims and objectives are to be realized. This white paper articulates why change is required now and describes a mission that is consistent with the evolution of the University since its founding.

1.0 The task force

The purpose of this white paper is to present the interim findings of the task force to the University community for discussion. It defines issues, opportunities and scenarios available to the University. As a discussion document, its purpose is to stimulate debate and determine the views of students and faculty on the future direction to be taken by the University on "rural resources."

1.1 Definition of "rural resources"

The task force has agreed, based on the International Union for the Conservation of Nature's statement of intent, that the University of Guelph should work towards understanding the optimal relationship between humans and the natural world by protecting essential ecological processes and life support systems, preserving biological diversity and ensuring that any use of species and ecosystems is sustainable.

It has defined "rural resources" to be:

all the components, chemical, physical, biological, human

> **and societal, that combine to make up an open system that interacts with its surroundings, notably the urban world. They are resources in the sense of having actual and potential value (ranging from the material to the esthetic) that contributes to the quality of life in rural areas.**

Therefore, the term "rural resources" encompasses (a) natural ecosystems and (b) human systems with special reference to (c) the mutual impact of human activities and the rural environment. The task force is essentially concerned with renewable land and water, as well as living resources, as they are within the existing expertise of the University.

1.2 Mandate

In May 1987, the Committee on University Planning (CUP) established the Task Force on "Rural Resources" with the mandate to review current opportunities and resources for teaching, research and services at the University related to the planning, development and management of "rural resources" and to recommend to CUP appropriate mechanisms to enable optimal development of the University's strengths in this area. The need for the task force evolved from a review of college, department and University school plans, which indicated an interest in a number of areas that relate to research analysis, planning, development and management of "rural resources." Common themes have been identified and are associated with areas such as resource analysis, landscape architecture, land evaluation, rural and human settlement planning, resources development and management, fish and wildlife management, marine resources utilization, ethics of development, resource economics, wilderness preservation, soil and water conservation, environmental

management, rural sociology and rural extension education. Work in these areas occurs throughout the University in varying degrees of interest and commitment.

Everyone who advised this task force viewed Guelph as having the potential to be a leader in education programs, research and extension in "rural resources." The opportunities are considerable, but currently there is a generally held perception that the University has not been able to facilitate a program or programs that can most effectively develop its expertise in these areas and fully benefit from its lead in these aspects of rural studies.

1.3 Working process

Since May, the task force has met bi-weekly and has established a three-stage process. **Stage One** took an inventory of people, courses and research involved with "rural resources." Questionnaires were sent to all faculty inquiring about their levels of interest and involvement with "rural resources." Research contracts were analysed and interviews were held with concerned faculty. Stage One is essentially complete. (A summary of its findings is appended to this document.)

Stage Two analysed Guelph's unique role and special identity among Canadian universities and the opportunities presented to it. To assess the University's unique role, a series of three open workshops was held in July and August with invited guests from industry, government and other universities who presented their views and engaged in discussion with the task force and members of the audience. A list of the workshop participants is appended to the report. This white paper summarizes the outcome of those workshops and subsequent discussions for further comment.

Stage Three will present recommendations to CUP on how to achieve optimal development of this University as a centre of excellence in "rural resource" studies. These recommendations will result from responses to the white paper.

The task force attempted throughout to maintain a participatory process. It has encouraged presentations by faculty, students and staff to ensure maximum involvement and to gain the greatest possible insight into the opportunities for Guelph to excel as an academic community.

2.0 External forces and their impact on the future of "rural resources"

Toward 2000 describes external challenges that will confront the University. Of the seven challenges, four are particularly significant with regard to "rural resources." They are: a) stewardship of our resources; b) new technologies; c) global interdependence; and d) the University and human development. A university planning for the year 2000 has to face these issues and educate for change.

2.1 World trends as identified by the UN

The United Nations recently released a report entitled Our Common Future, summarizing the findings of the Brundtland World Commission on Environment and Development. This report reveals dramatic growth and change taking place on the planet and reveals successes and failures in our efforts to date. It points out that in the past the major concern has been the impact of economic growth on the environment. It asserts that "we are now forced to concern ourselves with the impacts of ecological stress -- degradation of soil, water resources, atmosphere and forests -- upon our economic prospects." The

report targets six major policy directions essential to a state of sustainable development in which "we meet the needs of the present without compromising the ability of future generations to meet their own needs." The six policy directions are:

1) Population and human resources
2) Food security: sustaining the potential
3) Species and ecosystems: resources for development
4) Energy: choices for environment and development
5) Industry: producing more with less
6) The urban challenge

The University of Guelph is ideally suited to address most of these policy areas.

Although the business of defining the future is an uncertain one, some trends are much more predictable than others. A number of recent studies have suggested the following issues to be of paramount importance for the next five to 10 decades.

- We can expect the global human population at least to double in the next 50 to 100 years.
- We can expect significant changes in global climate.
- We face continued loss of agricultural land and forests, increased loss of species, continued degradation of water resources, rural depopulation and urban expansion.
- We will experience a spate of new technologies with both positive and negative impacts.
- We will face an inevitable decrease in the supply of fossil fuels.

All of these issues will have to be dealt with in a world in which we will be more tightly bound together by trade, communications and the environment we all share.

The issues and their resolutions are complex, knitting together natural and human ecology. Their resolution will require the collaborative efforts of disciplines as they are currently configured, and may lead to the emergence of new hybrid areas of study to meet the challenge.

3.0 Internal University issues as they relate to "rural resources"

3.1 Opportunities

The majority of our first-year students will spend most of their working lifetime in the 21st century. They will witness changes at least as great and as rapid as any seen by earlier generations. It is important that the University not merely respond to these changes, but provide leadership in understanding and conceivably directing changes for the good of humanity. What significance does this have for the University? What leadership has the University of Guelph shown in developing awareness of environmental stewardship? Can we construct a plan of action for this University out of the changing needs of society that were initially articulated in 1972, and that are even more pressing today? Are we effectively using the committed resources we already have? Have we created a climate for cross-sectional and multidisciplinary studies? What are our priorities and what is our mission?

In the view of the task force, we must continue to offer courses of high quality to students. In addition, now is the time to implement change. We must use our human and financial resources more effectively. We must improve

our application of research to meet human needs. We must clearly state our mission and establish our commitment to environmental stewardship. In the process, we must identify ourselves as world leaders in the "rural resource" field.

What should be done at Guelph? How can we integrate our diverse "rural resource" areas and make our combined efforts more effective? The unanimous opinion of the task force is that Guelph is a unique institution with well-recognized areas of excellence. Many departments and individuals from across the University are involved with "rural resources" and have made significant contributions that give the University an advantage in this area over other institutions. This advantage should be further strengthened and the necessary adjustments made to meet future needs effectively. (See Table I for a list of departments.) In effect, we conclude that we need to mobilize the resources that are already present and augment them as required to reconfirm our commitment to our "rural resource" mission.

TABLE I

Departments and academic units
having faculty who responded that they had
a major commitment to "rural resources"

College of Arts

English

Fine Arts

Philosophy

College of Biological Science

Botany

Zoology

College of Social Science

Economics

Geography

Political Studies

Sociology and Anthropology

College of Family and Consumer Studies

Consumer Studies

Family Studies

Office for Educational Practice

Ontario Agricultural College

Agricultural Economics &
Business

Animal & Poultry Science

Environmental Biology

Land Resource Science

Rural Extension Studies

Engineering

School of Landscape
Architecture

Ontario Veterinary College

Biomedical Sciences

Pathology

University School of Rural
Planning and Development

3.2 Conditions necessary for a successful "rural resource" program

We believe that successfully mounting a "rural resources" program of the scale envisioned would require the following commitments from the University community:

- A reaffirmation that "rural resources" on an international scale, as well as within the national and local frontiers, is one of our long-term challenges and missions;
- Recognition of the importance of fundamental scientific research in the separate areas of physical, biological, agricultural and social sciences as essential dimensions of the study of "rural resources";
- An increased number of co-operative, multidisciplinary research projects in "rural resources" that have a futurist perspective and are directed toward practical and policy-related issues;
- Individuals and departments making a clear statement of their contribution to the study of "rural resources" and supporting interaction with colleagues in other units;
- A critical mass of the most highly qualified personnel working together with adequate funding to support top-flight visiting scholars;
- Leadership that sets objectives and standards of excellence, facilitates, co-ordinates and communicates activity, and ensures long-term funding and staffing;

. A concerted effort to raise national and international awareness of the University of Guelph's commitment to permanent and high-quality programs in "rural resources."

3.3 Constraints

The field of "rural resources" requires people who have demonstrated excellence in a discipline, but who can integrate their work in a multidisciplinary context. Good scholarship can be achieved by creating a climate for faculty to have a problem-oriented focus. The translation of technology into implementable solutions remains a substantial challenge. This *is especially true at the international level,* where this need is ever increasing as the issues of species endangerment, forest destruction, desertification, urban migration, food distribution and the protection of natural resources become increasingly urgent.

The need to have a place for multidisciplinary, problem-focused research was emphasized repeatedly to the task force. We recognize that this will not have universal appeal to the faculty, but steps should be taken to accommodate the faculty who have expressed their interest and need. Such a place encourages individuals to work on specific projects of a complex nature, requiring multidisciplinary work. International issues could encourage this work while advancing individual disciplines. For example, the issues surrounding tropical rain forests are not limited to the economic harvesting of logs and the production of lumber. The rain forests must be seen as a complex community of plants, animals, people and their settlements, with global implications for the sustainability of the planet. Resource issues of compatible, sustainable development require multidisciplinary work.

To accomplish this, several constraints must be overcome. These include, but are not limited to, the following points.

The most basic constraint upon our ability to take a bold initiative is the natural tendency of individuals and institutions to resist change. All of us like to feel we are doing the best we can and that our work is first class. Although we prefer to think that change is not needed, we should constantly be asking ourselves: "Are we really the best we can be? Is the work we are doing the best possible contribution we can make to the welfare of the planet?"

The second major constraint on the University achieving its potential is the divisive nature of traditional scholarship. Most of us have been nurtured in the confines of a relatively rigidly defined discipline. We all tend to feel that our discipline is the most creative, exciting and intellectually superior area of inquiry in the academic kingdom. We also tend to feel that all the others are not quite as worthy and that in order to appreciate the significance of our discipline, outsiders must endure as much of the discipline as we have. The task force recognizes that it is not without reason that "interdisciplinary" work has been viewed as an activity only undertaken by crass generalists -- second-rate work of popular, not academic interest.

But a new attitude will be required. We have invented laboratory problems precisely to exclude the complexities of the "real world." This intellectual ethnocentrism is incapable of yielding solutions to those problems we encounter in the living world. Such solutions can only be found through new multidisciplinary endeavors. Indeed, we will likely do as we have in the past -- create new disciplines. For example, we now have the discipline of

information science to deal with the challenges of the "Third Wave." Further, these endeavors must be taken on by the most capable scientists and scholars. They cannot be seen as the hiding places of the "also-rans." The task force recognizes that multidisciplinary work is not for everyone. For those people who are interested, however, the environment to encourage this work is important. Having said this, we recognize that any multidisciplinary program benefits from being associated with strong traditional disciplines.

The third constraint is resources. This is a barrier to extensive expansion of our efforts, and there are likely to be fewer rather than more resources in the future. The dilemma can be met not by expanding, but by focusing our efforts in the areas of our strengths and in those areas where we can make the greatest contribution. If we can in some way bring together the currently dispersed capacity that exists in the University to create a critical mass of scholars in the field of "rural resources," we can achieve more effective use of the resources we now have and we may even gain the capacity to acquire new resources for the University.

Numerous other constraints were uncovered by the task force; in the interest of brevity, they have been summarized below.

- We have tended to have institutes and centres with short-term mandates. Associated problems have been short-term funding and/or a lack of sustained interest by participants.
- There has been inadequate co-ordination of various aspects of "rural resources" at Guelph, partly because of a lack of

long-term planning. Communication within the institution has been poor.

- Many faculty have no experience in, or appreciation of, multidisciplinary research. Research has tended to follow rigid disciplinary lines, and multidisciplinary work has been viewed by some to be of questionable quality.
- Promotion, tenure and merit guidelines often discourage individuals from participating in multidisciplinary work because review committees have difficulty assessing multidisciplinary work and the contribution of each participant.
- There have been demarcation disputes associated with college and departmental structure and with rigidly structured graduate and undergraduate programs.
- Confusion has existed regarding the University's mission and goals.

If we continue to cling to the belief that these times of constraint will end and that the euphoric expansion of the 1960s and early 1970s will return, we will certainly lose the chance to seize the real opportunities that may present themselves to us. As individuals, departments and as an institution, we must adapt to our changing environment and take advantage of our special niche.

4.0 Current "rural resource" expertise and activity at Guelph

The task force has attempted to understand "rural resource" activities at Guelph by disseminating faculty questionnaires, obtaining written

responses from faculty and other concerned members of the Guelph community, by reading student responses, by reviewing enrolment statistics at the undergraduate and graduate levels and by collecting information on research contracts. The results of the faculty questionnaire to date indicate that about 29 per cent of the respondents involved in undergraduate teaching and 30 per cent of those involved in graduate teaching are actively involved in "rural resources." "Active" was defined by the task force as a 40-per-cent or greater commitment of time to "rural resources" in their area of work. In research, about 34 per cent of Guelph's faculty are involved, with another 31 per cent reportedly active in extension work. Of the more than 700 University faculty, about 45 (6.5 per cent) are "highly active" in "rural resources."

The task force finds this significant, as Guelph ranks favorably in comparison with the faculty strength of other universities. The internationally respected school of natural resources at the University of Michigan has a total faculty of 30. The faculty of environmental studies at York University has a faculty of 41. The faculty of environmental studies at Waterloo has 83 members, encompassing geography, human/environment studies and architecture, as well as urban and regional planning.

The University of Guelph already commands a comparable allocation of resources. With respect to the entire University community, we have the equivalent of a small college similar to these other universities. The difference is that at Guelph such a college does not exist in a recognizable form and "rural resources" are poorly co-ordinated. Our focus, our image and our visibility are not as high as they deserve to be. This is not a satisfactory situation because it underrates and undersells the contribution Guelph is capable of making.

4.1 Complementary faculty interests

Significant work is taking place in diverse areas. Several faculty members from these groups have made submissions to the task force stating the need for structures that allow bridges between disciplines. "Sustainable development" was offered as an illustration of the sort of contemporary concern that has compound implications for many disciplines, all of which must be defined concurrently before the difficult task of developing appropriate policies and management plans can be undertaken.

The complexity posed by the relationships of nature and humanity, combined with the implications of new technologies and the impact of human behavior, provides a substantial base for theoretical and applied research. At present, a minimum of multidisciplinary work on societal/resource issues is being carried out. A new structure and resource base is necessary to allow this work to take place.

4.2 Student perceptions

The task force does not have a great deal of information from students about needs and perceived gaps. But one paper prepared by the Working Group on Agriculture and Ecology on July 2, 1987, made some notable points. The paper addresses the need for a program about the relationship of agriculture and ecology. The students' common concern was continued environmental degradation and the promotion of a more sensitive, sustainable type of agriculture. They believe the University is not living up to its role as defined in its aims and objectives document. They listed 12 specific concerns that they believe are gaps in our current programs. Some of these are: the cost

to the consumer of environmental destruction, soil degradation, erosion control and desertification, forestry, production for short-term economic gain, ecology and economics, and irrigation cost/benefit. Many of these areas are in fact being discussed at the University. The issue is one of fragmentation; at present the context that would allow a comprehensive discussion and focus on the complex range of issues posed by each topic is not to be found.

One student ('88) wrote a compelling note expressing his hopes and fears. He wrote: "We are a vulnerable generation. We live with the fear of death as one who is four times our age and we convert our anger as a plant converts starch. We want our collective energies to combine in order to *chal*lenge a *wor*ld extravagantly out of balance. We desire a better world and we are an urgent generation. I feel an immediacy to do something --anything -- to assist in creating conditions of harmonious living. There is a need for change -- dramatic change in the way we live and learn -- so we can regain control of our destiny."

4.3 Research activity

A review of research being carried out in the "rural resource" field shows that a substantial amount of work is being done. The task force examined all available records of research conducted over the past three years, classifying them into three categories -- natural systems, social/community studies and environment/human interactions. Figures on financial support of this work were obtained from the Office of Research.

1) Natural systems

Projects in this category emphasized basic science or a theoretical focus and accounted for a minimum of $1.3

million per year.

2) Social/community studies

Research projects in this area also emphasized a theoretical focus. Community development contracts such as the Sulewesi project, which in itself has a value of $12 million, were not included. Projects in this category accounted for about $230,000 dollars per year.

3) Human/environmental impacts

Projects in this category examined causal relationships and the systemic impacts of elements or activities and accounted for about $800,000 per year.

The total amount spent on research on a yearly basis, according to available information, is in the area of $2.33 million. This is a substantial amount of money and shows that considerable activity is currently under way at the University.

5.0 The future of Guelph as a distinctive academic community

5.1 A statement of our mission

The task force has concluded that the University should take decisive action in formally recognizing the field of "rural resources." Dr. John Evans summarized the need in a succinct manner when he said: "Internationally and nationally, agriculture, forestry and rural economic development has stalled. Are we looking at the right technology? Should we be helping the less successful rather than making the successful more successful? The major

problems of the Third World include population growth, migration, dislocation and literacy. The bio-physical, ecological and economic problems have already been addressed by other speakers. There is a tremendous opportunity for study and accomplishments in 'rural resources.' Guelph could be at the top of the list; can you grasp the straw? Have you really defined Guelph's unique position in Ontario, Canada, and internationally and maximized its strengths in 'rural resources'? Perhaps we have been straddling the fence too long on this question, and as others have moved forward with vision, we have simply continued to talk."

This is probably a very conservative estimate and demonstrates the need for more accurate documentation of data at the University.

THE TASK FORCE PROPOSES THE FOLLOWING MISSION FOR "RURAL RESOURCES" AT THE UNIVERSITY:

The mission of the University of Guelph in the field of "rural resources" is to be an international leader in education, research and service. Here we must encourage an environment of learning where fundamental scientific research and multidisciplinary work can be undertaken. This will lead to the further development of people capable of formulating and implementing "rural resource" policies, and of managing the natural resources to meet human needs on a sustainable basis.

5.2 Act on our long-standing commitment to "rural resources"

The first conclusion of the task force is that the University needs to take decisive action now to formally recognize the field of "rural

resources." This is consistent with the University's aims and objectives documents of 1972 and 1985. We have already stated we are late in taking leadership initiatives in this area. The opportunities have never been greater, the need has been demonstrated and a substantial number of human and physical resources are in place. What vision do we have for the University of Guelph in the 21st century? In the "rural resource" field, it could be a pre-eminent centre of learning and research where the global and local issues of sustainability are addressed from economic, social, cultural, bio-physical and management perspectives.

The second conclusion of the task force recognizes the need for the University to assess whether its present organizational structure can foster our leadership role in "rural resources." The challenge posed by the field of "rural resources" may require alternative structures so that faculty and students interested in problem-oriented, multidisciplinary work have an avenue to release their creative energies. Examples of administrative units that require reassessment are the University School of Rural Planning and Development, the Ontario Agricultural College, the College of Biological Science and the College of Social Science. The perception of the task force is that certain changes are now taking place in these units that, if integrated as a "rural resources" field, would more effectively use our existing capacity to implement the aims plan. New programs should be considered in terms of their ability to add to the "rural resource" academic base. Some examples to be considered are the areas of human population control, applied ecology, open space management, regional landscape analysis, coastal zone policy planning, human settlement studies and economics of ecology.

5.3 Scenarios under consideration

The task force concluded that at least six options exist to create a new focus for "rural resources." We are currently considering these options and will not be making a final recommendation until the public discussions are completed. In summary form, the options considered are:

1. Re-order the Ontario Agricultural College

   To recognize social and biological aspects of agriculture and address the larger issues of environmental design and stewardship in the rural environment.

2. Re-order the College of Social Science

   To include more environmental analysis and application of social scientific theory to the amelioration of "rural resource" problems.

3. Re-order the College of Biological Science

   To broaden its "rural resource" base in the areas of applied ecology, environmental design and human settlement planning.

4. Create a "rural resource" centre

   A "think-tank" to respond to and anticipate future needs via research, with a particular emphasis on policy studies.

5. Create a school or institute of "rural resources" within the Faculty of Graduate Studies

   By integrating "rural resource" studies with a

new, definable focus and mandate, to sponsor graduate study and research.

6. Create a college of rural development

By amalgamating existing units to sponsor research, graduate degree programs, service and undergraduate teaching.

Each of these options has implications for administration, budgeting, research, faculty, graduate and undergraduate programs and outreach services. They are not mutually exclusive, and comments will be actively solicited at public meetings in the University Centre.

5.4 Summary

In summary, an enunciation of specific objectives is the prerequisite basis for decisions on resource allocations. Clarification of Guelph's mission and the opportunities offered by its distinctive character are critical to ensure the sustained growth and quality of the University in the years to come.

Guelph is different from other institutions in that here, we focus on the rural environment in its totality (including oceans and polar regions) as a primary source of work. We can also emphasize applied technology and management planning. We emphasize the "rural resource" area for its own sake and we are not subservient to urban priorities or imperatives. We have made a *commitment to provide the capacity for rural areas* to sustain themselves and to create livable environments for rural dwellers. If an assembly line mentality rules and rural people are continually displaced from the land, what will be left? The rural environment sustains the urban. The quality of life for each is inseparable from that of the other.

This white paper summarizes our deliberations to date. The next stage of work will be to receive comments through public consultation and to complete our findings and recommendations by the end of November. Your continued support is appreciated, and members of the task force are available for more detailed discussion. Please address all written responses to Prof. Walter Kehm, School of Landscape Architecture.

APPENDIX A

List of task force guests at workshops

Session I - July 29, 1987

Doug Auld	Principal & Chief Executive Officer	Sir Sandford Fleming School of Natural Resources, Lindsay
Stephen Price	Vice-President	World Wildlife Fund (Canada)
Vernon Thomas	Professor	Zoology Department University of Guelph

Session II - Aug. 5, 1987

Carol Amaratunga	In charge of educational programs	International Centre for Ocean Development Halifax
Harold Baker	Director	Rural Extension Program *University of* Saskatchewan
John Evans	President Chairperson	Allelix Inc. Rockefeller Foundation
Ed Manning	Director	Land Directorate Environment Canada
Janet Wardlaw	Assoc. V.P. Academic Chairperson	University of Guelph IDRC Board of Governors

Session III - Aug. 12, 1987

George Conneman	Dean	College of Agricultural Economics Cornell University
Kenneth Polakowski	Professor	School of Natural Resources University of Michigan
Dixon Thompson	Professor	Faculty of Environmental Design University of Calgary
Ross Whaley	President	College of Environmental Science and Forestry State University of N.Y.

APPENDIX B

EXECUTIVE SUMMARY OF THE WHITE PAPER ON "RURAL RESOURCES" AT THE UNIVERSITY OF GUELPH

Preamble - University of Guelph initiatives in "rural resources"

Both the aims and objectives declaration of 1972 and the 1985 Toward 2000: Challenges and Responses stress the importance of "rural resources" and its centrality as a concern to the University of Guelph.

In the opinion of the task force, our University's central concern with "rural resources" has not been fostered by a sufficiently strong vision and sense of mission. A centre for resources development was founded in the early 1960s. In 1980 it was decided to recast this centre, and the University School of Rural Planning and Development was founded to serve the particular needs of people and resources in the rural environment. The school by itself, however, is simply not sufficient to accommodate the scope and magnitude of societal issues related to "rural resources." This white paper articulates why *change is required now, and describes a mission* that is consistent with the evolution of the University since its inception.

1.0 THE TASK FORCE

This white paper defines issues, opportunities and scenarios available to the University. The task force has defined "rural resources" to be:

> **all the components, chemical, physical, biological, human and societal, that combine to make up an open system that interacts with its surroundings, notably the urban world. They are resources in the sense of having value (ranging from the material to the esthetic) that contributes to the quality of life in rural areas.**

The task force was established by Senate to review current capacity at the University related to the planning, development and management of "rural resources" and to recommend to the Committee on University Planning appropriate mechanisms to enable optimal development of the University's strengths in this area.

2.0 EXTERNAL FORCES AND THEIR IMPACT ON THE FUTURE OF "RURAL RESOURCES"

Toward 2000 outlines seven challenging trends, four of which are particularly significant with regard to "rural resources." They are: a) stewardship of our resources, b) new technologies, c) global interdependence, and d) the University and human development.

The United Nations recently released a report entitled Our Common Future, summarizing the findings of the Brundtland World Commission on Environment and Development. The report targets six major policy directions essential to a state of sustainable development. These are:

1) Population and human resources
2) Food security: sustaining the potential
3) Species and ecosystems: resources for development
4) Energy: choices for environment and development
5) Industry: producing more with less
6) The urban challenge

Although the business of defining the future is an uncertain one, some trends are much more predictable than others. A number of recent studies have suggested the following issues to be of paramount importance for the next five to 10 decades:

- We can expect the global human population at least to double in the next 50 to 100 years.
- We can expect significant changes in global climate.
- We face continued loss of agricultural land and forests, increased loss of species, continued degradation of water resources, rural depopulation and urban expansion.
- We will experience a spate of new technologies and their positive and negative impacts.
- We will face an inevitable decrease in the supply of fossil fuels.

3.0 INTERNAL UNIVERSITY ISSUES AS THEY RELATE TO "RURAL RESOURCES"

What should be done at Guelph? How can we integrate our diverse "rural resource" areas and make our combined efforts more effective? The unanimous opinion of the task force is that the University of Guelph is a unique institution with well-recognized areas of excellence. This advantage should be further strengthened and the necessary adjustments made to meet future needs effectively. In effect, we are concluding that we need to mobilize the resources that are already present and to augment this capacity as required to capitalize on their combined strengths.

We believe that successfully mounting a "rural resources" program of the scale envisioned would require the following commitments from the University community:

- A reaffirmation that "rural resources" on an international scale, as well as within the national and local frontiers, is one of our long-term challenges and missions;
- Recognition of the importance of fundamental scientific research in the separate areas of physical, biological, agricultural and social sciences as essential dimensions of the study of "rural resources";
- An increased number of co-operative, multidisciplinary research projects in "rural resources" that have a futurist perspective and are directed toward practical and policy-related issues;
- *Individuals and departments* making a clear statement of their contribution to the study of "rural resources," and supporting interaction with colleagues in other units;
- A critical mass of the most highly qualified personnel working together with adequate funding to support top-flight visiting scholars;
- Leadership that sets objectives and standards of excellence, facilitates, co-ordinates and communicates activity, and ensures long-term funding and staffing;
- A concerted effort to raise national and international awareness of the University of Guelph's commitment to permanent and high-quality programs in "rural resources."

The most pressing constraint is resources. This is a real barrier to extensive expansion of our efforts, and there are likely to be fewer rather than more resources in the future. The dilemma can be met not by expanding, but by focusing our efforts in the areas of our strengths and in those areas where we can make the greatest contribution. If we can in some way bring together the currently dispersed capacity that exists in the University to create a critical mass of scholars in the field of "rural resources," we can achieve more effective use of the resources we now have and we may even gain the capacity to acquire new resources for the University.

4.0 CURRENT "RURAL RESOURCE" EXPERTISE AND ACTIVITY AT GUELPH

Results of the faculty questionnaires to date indicate that about 45 members (6.5 per cent) are self-identified as active in "rural resources." "Active" was defined by the task force as a 40-per-cent or greater commitment of time to "rural resources" in their area of work.

The task force finds this significant, as Guelph ranks favorably in comparison with the faculty strength of other universities. The internationally respected school of natural resources at the University of Michigan has a total faculty of 30. The faculty of environmental studies at York University has a faculty of 41. The faculty of environmental studies at Waterloo has 83 members, encompassing geography, human/environment studies and architecture, as well as urban and regional planning.

The University of Guelph already commands a comparable allocation of resources. With respect to the entire University community, we have the equivalent of a small college similar to these other universities. The difference is that at Guelph such a college does not exist in a recognizable form and "rural resource" activities are disparate. Our focus, our image and our visibility are not as high as they deserve to be.

The task force does not have a great deal of information from students about needs and perceived gaps. But one paper prepared by the Working Group on Agriculture and Ecology on July 2, 1987, addresses student concern with environmental degradation and the promotion of a more sensitive, sustainable type of agriculture. The group listed 12 specific concerns that they believe are not addressed by our current academic programs. Some of these are: the cost to the consumer of environmental destruction, soil degradation, erosion control and desertification, forestry, production for short-term economic gain, ecology and economics, and irrigation cost/benefit. Many of these areas are in fact being discussed at the University. The issue is fragmentation of effort.

Figures on financial support of this work were obtained from the Office of Research:

1) Natural systems

   Projects in this category emphasized basic science or a theoretical focus and accounted for about $1.3 million per year.

2) Social/community studies

   Research projects in this area also emphasized a theoretical focus. Community development contracts such as the Sulawesi project, which in itself has a value of $12 million, were not included. Projects in this category accounted for about $230,000 per year.

3) Human/environmental impacts

   Projects in this category examined causal relationships and the systemic impacts of elements or activities and accounted for about $800,000 per year.

5.0 THE FUTURE OF GUELPH AS A DISTINCTIVE ACADEMIC COMMUNITY

The mission of the University of Guelph in the field of "rural resources" is to be an international leader in education, research and service. Here we must encourage an environment of learning where fundamental scientific research and multidisciplinary work can be undertaken. This will lead to the further development of people capable of formulating and implementing "rural resource" policies, and of managing natural resources to meet human needs on a sustainable basis.

The first conclusion of the task force is that there is a need for the University to take decisive action now to recognize formally the field of "rural resources." In the "rural resource" field, it could be a pre-eminent centre of learning and research where the global and local issues of sustainability are addressed from economic, social, cultural, bio-physical and management perspectives.

The second conclusion of the task force is that the University needs to assess whether its present organizational structure can foster our leadership role in "rural resources." The challenge posed by the field of "rural resources" may require alternative structures so that faculty and students interested in problem-oriented, multidisciplinary work have an avenue to release their creative energies. Examples of administrative units that require reassessment are the University School of Rural Planning and Development, the Ontario Agricultural College, the College of Biological Science and the College of Social Science. The perception of the task force is that certain changes are now taking place in these units that, if integrated as a "rural resources" field, would more effectively use our existing capacity to implement the aims plan. New programs should be considered in terms of their ability to add to the "rural resource" academic base. Some examples to be considered are the areas of human population control, applied ecology, open space management, regional landscape analysis, coastal zone policy planning, human settlement studies and economics of ecology.

Thirdly, the task force concludes that at least six options exist to create a new focus for "rural resources."

1. Re-order the Ontario Agricultural College

   To recognize social and biological aspects of agriculture and address the larger issues of environmental design and stewardship in the rural environment.

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   To include more environmental planning and application of social scientific theory to the amelioration of rural problems.

3. Re-order the College of Biological Science

   To broaden its "rural resource" base in the areas of applied ecology, environmental design and human settlement

planning.

4. Create a "rural resource" centre

A "think-tank" to respond to and anticipate future needs via research with a particular emphasis on policy studies.

5. Create a school or institute of "rural resources" within the Faculty of Graduate Studies

By integrating "rural resource" studies with a new, definable focus and mandate, to sponsor graduate study and research.

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By amalgamating existing units to sponsor research, graduate degree programs, service and undergraduate teaching.

This white paper summarizes our deliberations to date. The next stage of work will be to receive comments through public consultation and to complete our findings and recommendations by the end of November. Your continued support is appreciated, and members of the task force are available for more detailed discussion. Please address all written responses to Prof. Walter Kehm, School of Landscape Architecture.

Task Force Members

Eleanora Cebotarev	Sociology & Anthropology	2504
Ward Chesworth	Land Resource Science	2457
John FitzGibbon	University School of Rural Planning and Development	6784
Ken Grant	Economics	2187
Walter Kehm	Landscape Architecture	3352
Elaine McCreary	Rural Extension Studies	3811
Doug Ormrod	Graduate Studies	6735
Keith Ronald	Arboretum/Zoology	2356

(Edited for publication in At Guelph)

UNIVERSITY of GUELPH

THE CAMPAIGN

A GIFT OF MUSIC

The Macdonald Stewart Art Centre became a concert hall Oct. 20 to recognize a recent contribution to *The Campaign* that will enhance the University's music program.

A gift from Hollinger Inc. of Toronto has enabled McLaughlin Library to purchase critical editions of the musical scores of Mozart, Beethoven, Brahms and Schoenberg.

Selections from the works of the four composers were performed for an audience of about 70, including Edmund Bovey, chair of the Board of Governors campaign committee and a member of the Hollinger board of directors. Other guests included President Burt Matthews and representatives of the University administration, the Department of Alumni Affairs and Development, the Department of Music, the Library and the art centre.

Music professor Patricia Harton-McCord sang selected songs from the works of Brahms, accompanied on the piano by Prof. Leslie Kinton and on the viola by Dan Bush, a member of the Kitchener-Waterloo Symphony. Prof. Elizabeth Neufeld sang Mozart arias; Kinton performed the works of Beethoven and Schoenberg were performed by Kinton.

"The Hollinger Collection of Critical Scores of the Viennese Masters" will include all materials published in the four editions to date as well as the remaining scores, which will be added as they are published. An additional allocation from the Alma Mater Fund has provided the critical editions of nine other composers ranging from the 15th to the late-19th century.

Each of these library resources raises the quality of the degree programs offered by the Department of Music, says chair Edward Phillips. "This is the difference between adequate and excellent."

The practical reasons for acquiring these monumental editions include the fact that some pieces of a composer's work may not appear anywhere else, says Bernard Katz, head of the Library's humanities and social science division. In addition, they represent the latest scholarship on the work of the composer, including critical reviews and the editor's notes.

In many cases, musical scholars have had to reconstruct these scores by retracing the composer's life, says Katz. Each edition is published in sections as they are completed. A single edition can contain hundreds of volumes and represent years of effort and research. McLaughlin Library will acquire the entire Brahms edition, the Mozart edition, which is now 7/8 complete, and both the Beethoven and Schoenberg editions, which are about half done, he says.

The Hollinger gift and the AMF allocation have also enabled the Library to realize a saving of 15 to 20 per cent on the purchase of the published editions and the subscription to future volumes. The Mozart edition, valued at $10,000 U.S., had seemed completely out of reach, says Phillips.

These acquisitions will support the department's revised curriculum, which includes a new specialized honors BA program. The definitive scores offer a distinct advantage to students who are involved in a diversity of music programs and need to learn the importance of creative independent work, he says. ○

Prof. Edward Phillips, Bernard Katz, centre, and Edmund Bovey, examine material in the Hollinger Collection.
John Majorossy, Photographic Services